

# THE OHIO UNIVERSITY BULLETIN



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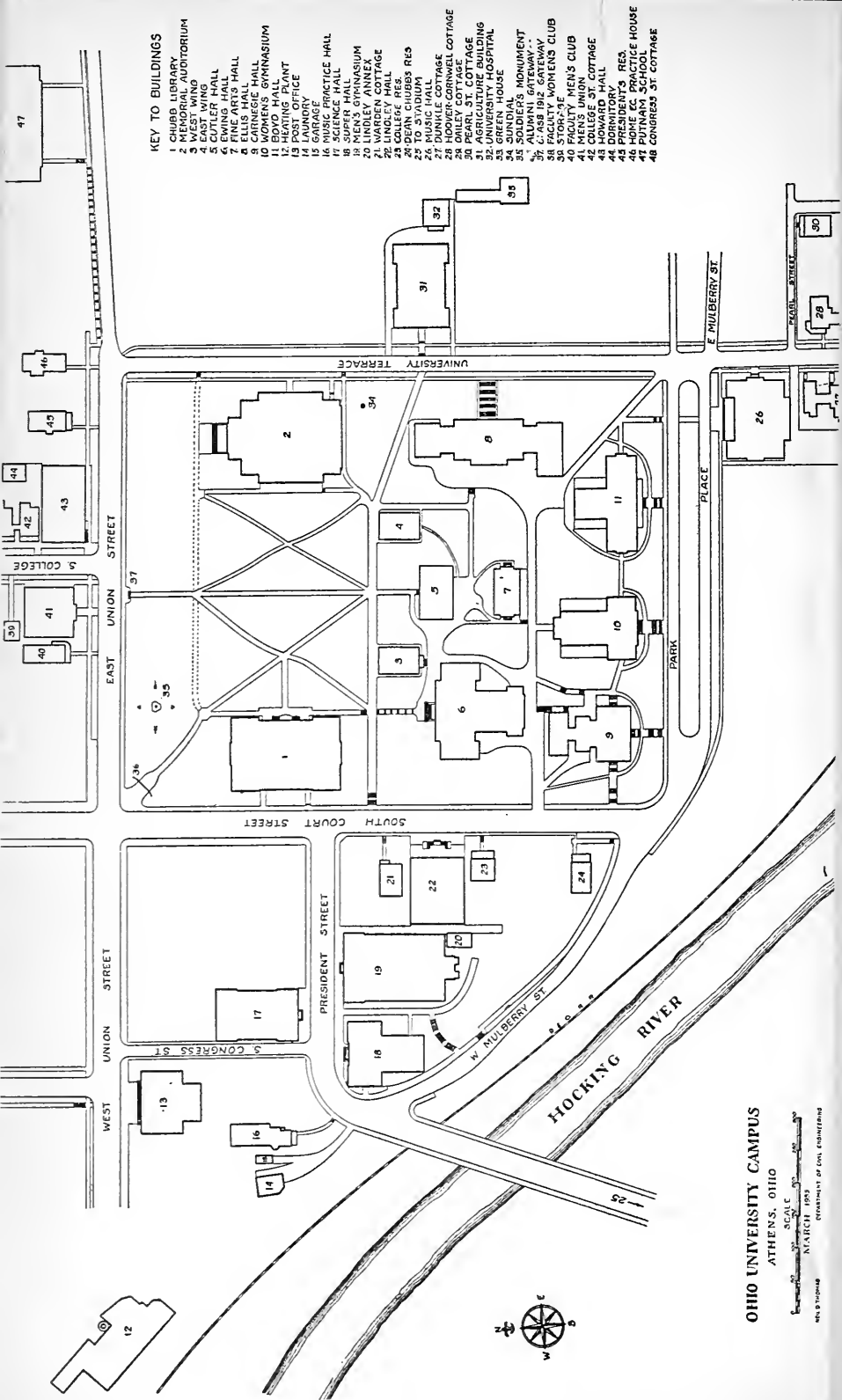
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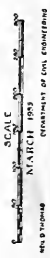
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# OHIO UNIVERSITY CAMPUS

ATHENS, OHIO



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1936

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1937

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# THE UNIVERSITY CALENDAR

1936 - 1937

1936

## SUMMER SESSION

June 15, Mon.	Registration, 8:00 A. M.
June 16, Tues.	Classes begin, 7:10 A. M.
July 4, Sat.	Independence Day: a holiday.
Aug. 7, Fri.	August Commencement.

## POST SUMMER SESSION

Aug. 1, Sat.	Notify office of Registrar of intention to attend Post Summer Session.
Aug. 7, Fri.	Registration, 8:00 A. M.
Aug. 8, Sat.	Registration continued.
Aug. 10, Mon.	Classes begin, 8:10 A. M.
Aug. 28, Fri.	Session closes.

1936

## FIRST SEMESTER

Sept. 14, Mon.	Beginning of freshman week.
Sept. 15, Tues.	Registration for freshmen.
Sept. 16, Wed.	Registration for upperclassmen.
Sept. 17, Thurs.	Registration until 12:00 noon. Classes begin at 1:10 P. M.
Sept. 26, Sat.	Last date for filing application for graduation in February.
Nov. 25, Wed to	Thanksgiving recess, from the close of last class on Tuesday until the beginning of classes on Monday.
Nov. 30, Mon.	
Dec. 19, Sat.	Holiday recess, from the close of last class on Friday until the beginning of classes on Monday, January 4.

1937

Jan. 4, Mon.	Classes resume at 8:10 A. M.
Jan. 30, Sat.	First semester closes.

## SECOND SEMESTER

Feb. 1, Mon.	Registration for freshmen.
Feb. 2, Tues.	Registration for upperclassmen.
Feb. 3, Wed.	Registration until 12:00 noon. Classes begin at 1:10 P. M.
Feb. 13, Sat.	Last date for filing application for graduation in June.
Mar. 27, Sat. to	Spring recess, from the close of the last class on Friday until the beginning of classes on Monday.
Apr. 5, Mon.	
May 31, Mon.	A holiday observed for Memorial Day.
June 6, Sun.	Baccalaureate.
June 7, Mon.	Commencement.

## BOARD OF TRUSTEES

	Term Expires
Robert E. Hamblin, Toledo -----	Indefinite
Evan J. Jones, Athens -----	Indefinite
James P. Wood, Athens -----	Indefinite
Thomas R. Biddle, Athens -----	Indefinite
Fred W. Crow, Pomeroy -----	Indefinite
Eli R. Lash, Athens -----	Indefinite
E. C. Eikenberry, Camden -----	Indefinite
Charles D. Hopkins, Athens -----	Indefinite
Arthur C. Johnson, Columbus -----	Indefinite
Thomas J. Davis, Cincinnati -----	Indefinite
John H. Preston, Athens -----	1936
Jacob G. Collicott, Columbus -----	1937
Fred G. Leete, Ironton -----	1938
Fred Beckler, Athens -----	1939
Charles E. Holzer, Gallipolis -----	1940
Gordon K. Bush, Athens -----	1941
F. F. Young, Lowell -----	1942
President Herman G. James -----	Ex Officio
Governor Martin L. Davey -----	Ex Officio

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Thomas R. Biddle -----	Chairman
George C. Parks -----	Secretary

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Auditing—Lash, Jones, Bush  
 Buildings and Grounds—Collicott, Beckler, Holzer  
 Finance—Hopkins, Davis, Wood, Eikenberry  
 Library—Wood, Jones, Beckler  
 Publicity—Johnson, Preston, Bush, Leete  
 Teachers and Salaries—Johnson, Eikenberry, Hamblin  
 University Conference—Collicott, Crow, Young  
 The Chairman of the Board of Trustees is chairman of each of the committees.

# STANDING COMMITTEES OF THE FACULTY

1935 - 1936

EXECUTIVE—Deans of Instruction, Registrar

REGISTRATION, CLASSIFICATION, AND DEGREES—Dilley, McCracken, Chubb

SUMMER SCHOOL—McCracken, Chubb, Gard, Matheny, Atwood, Phillips

LIBRARY—Librarian, Deans of Instruction

BUREAU OF APPOINTMENTS—McCracken, Chubb, Gard, Matheny, Atwood,  
Johnston, Sias

UNIVERSITY MUSIC AND LECTURE COURSE—Robinson, Chubb, McCracken,  
Apgar

SOCIAL ACTIVITIES—Voigt, Johnston, Gaylord, Phillips, Noss, Whitehouse

GROUP EXTENSION AND CORRESPONDENCE STUDY—Bing, Chubb, McCracken,  
Dilley

CONVOCATIONS—Robinson, Voigt, Johnston, W. H. Cooper

FRESHMAN WEEK—Johnston, Voigt, Chubb, McCracken, Dilley, Bird, Porter

BOOKS AND SUPPLIES—Johnston, Voigt, Parks

CAMPUS AFFAIRS—Social Activities Committee, President of Men's Union,  
President of Women's League, Editor of Green and White, two stu-  
dent members at large

PUBLIC RELATIONS—Starcher, DeLand, Gullum, Hansen, Hatcher, Hill, Houf,  
Krauskopf, Lasher, Matthews, McQuiston, Staats, Thomas, Way,  
Williams, Wray

The President of the University has membership in each Committee.

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	Cutler Hall
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	Cutler Hall
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	West Wing
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	Cutler Hall
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	Ewing Hall
LEWIS JAMES ADDICOTT, C.E.	Supervising Architect
	Super Hall

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DORA MOORE, Ph.B.	Cataloguer
AMY ALLEN, A.B., B.L.S.	Reference Librarian
CANDUS MACE MARTZOLFF, A.B.	Assistant Reference Librarian
ANNA ELISE WHITE	General Assistant Librarian
MILDRED CAROLYN CHUTTER, A.B., B.L.S.	Assistant Cataloguer
JANETTE WOOLSEY, M.S.	Children's Library
JUNE SOUTHWORTH, A.B., B.S.	Assistant Cataloguer

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HELEN CORNEIL ROUSH	Assistant Registrar
BERTHA VICKERS	Clerk
VELMA STANEART, A.B. in Com.	Stenographer
MARY VICKERS ERSKINE, A.B.	Assistant to the Registrar
NELLIE BROOKS GRISWOLD	Clerk
VIRGINIA BROWN COE, B.S.S.	Typist

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MARTHA C. ROBINSON, B.S.S.	Typist

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Men's Gymnasium  
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MARY HELEN F. FRETT, A.M.-----*Head of Howard Hall*

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- IRMA ELIZABETH VOIGT, Ph.D., *Dean of Women*
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\* Arranged in order of priority of service within respective ranks, as of April 1, 1936.

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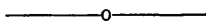
\* On leave of absence.

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\*MARVEL C. MEE, B.S., *Instructor in Physical Education*

MABEL MAEME SWANSON, M.S., *Instructor in Home Economics, Director of Dining Halls*

ROYAL H. RAY, A.M., *Instructor in Journalism*

EUGEN H. MUELLER, A.M., *Instructor in German*

BERTRAM A. RENKENBERGER, A.M., *Instructor in Spanish*

JOHN ELZA EDWARDS, A.M., *Instructor in Electrical Engineering and Physics*

PHILIP L. PETERSON, B.M.Ed., *Instructor in Voice and History of Music*

LURANA BETTY MORRIS, A.M., *Instructor in Art Education*

CARRIE ELIZABETH SPENCER, A.M., *Instructor in Physical Education*

BERNARD EMERSON HUGHES, A.M., *Instructor in Physical Education*

HELEN MAASER, A.M., *Instructor in Music Education*

JEANNETTE BROWN, A.M., *Instructor in Music Education*

JOSEPH E. THACKREY, A.M., *Instructor in Music Education*

ALLAN GARFIELD GRUCHY, Ph.D., *Instructor in Finance*

KARL H. KRAUSKOPF, Ph.D., *Instructor in Advertising*

HELEN WALLACE MCCOLL, M.S., *Acting Instructor in Physical Education*

GRACE WINIFRED JONES, B.S. in Com., *Instructor in Secretarial Science*

ROGER ENOCH BENNETT, Ph.D., *Instructor in English*

LAWRENCE POWELL EBLIN, Ph.D., *Instructor in Chemistry*

\* On leave of absence.

JAMES ALBERT MILLER, A.B., *Instructor in Biology*

CARL TUSSING NESSLEY, Ed.M., *Instructor in Physical Education*

LAMAR JOSEPH OTIS, B.S. in Bus.Adm., C.P.A., *Instructor in Accounting*

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MARY EUNICE SNYDER, A.M., *Teacher in Nursery School*

MILTON D. HUGHES, A.B., *Lecturer in Commerce*

THOMAS MCKINLEY WOLFE, M.B.A., *Lecturer in Commerce*

ROLLA VERGIL COOK, Ph.D., *Visiting Lecturer in Electrical Engineering and Physics*

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JULIA LUELLA CABLE, A.M., *Assistant in Psychology*

CARL GEORGE FRISCHE, B.S. in Agri., *Assistant in School of Music*

---

PETER FRANCIS GOOD, A.B. in Com., *Coordinator in Printing*

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JOHN G. LASKIN, B.S. in Ed., *Fellow in Biology*

MARY MARGARET YOUNG, B.S. in Ed., *Fellow in Home Economics*

MARGERY M. FISHER, B.S. in Ed., *Fellow in Home Economics*

LAWRENCE ISADORE GOLDBERG, A.B., *Fellow in Biology*

RUTH KNOCH, B.S. in Ed., *Fellow in Home Economics*

MARGARET LOUISE VANDENBARK, B.S. in Ed., *Fellow in Education*

KATHERINE BOYD, B.S. in Ed., *Fellow in Education*

HELENA G. GILLILAN, B.S. in Ed., *Fellow in Education*

RUTH TALBOTT, B.S. in Ed., *Fellow in Education*

LURENE BROWN, A.B., *Fellow in Education*

MARTHA PAXTON, B.S. in Ed., *Fellow in Home Economics*

RUTH IRVIN, A.B., *Fellow in Biology*

MAUD JONES, A.B., *Fellow in Social Supervision*

ALICE B. MARSH, M.S., *Fellow in Social Supervision*

EDITH A. PRENTICE, A.B., *Fellow in Social Supervision*

HELEN M. TAYLOR, A.B., *Fellow in Social Supervision*

CARL EDWARD DUFFY, A.B., *Fellow in Biology*

HAROLD LANDRUM LEE, A.B., *Fellow in Mathematics*

PAUL IVINS HAUSERMAN, B.S. in Ed., *Fellow in Industrial Education*  
 RUBIN KATZ, B.S. in E.E., *Fellow in Electrical Engineering and Physics*  
 RUTH DRAKE, B.S. in Ed., *Fellow in Classical Languages*  
 LESLIE DEWEY BEADLE, B.Ed. in Agric., *Fellow in Biology*  
 ROBERT LYNN HUTCHINSON, A.B., *Fellow in Biology*  
 PAUL JOSEPH DESIO, A.B., *Fellow in Romance Languages*

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## TRAINING SCHOOLS

AZARIAH B. SIAS, Ph.D., *Director of Teacher Training, Professor of School Administration*

### RUFUS PUTNAM SCHOOL

EINAR AUGUST HANSEN, Ph.D., *Director of Rufus Putnam School, Professor of Elementary Education*

MARIE ACOMB QUICK, A.M., *Supervising Critic, Kindergarten*

\*GLADYS M. WILLIAMS, A.M., *Supervising Critic, Kindergarten*

MABEL BERYL OLSON, A.M., *Supervising Critic, First Grade*

HELEN MARIE EVANS, A.M., *Supervising Critic, Second Grade*

ADELAIDE ISABEL JOHNSON, A.M., *Supervising Critic, Third Grade*

MARGARET VIOLA NELSON, A.M., *Supervising Critic, Fourth Grade*

MARY WARD, A.M., *Supervising Critic, Fifth Grade*

ESTHER MAE DUNHAM, A.M., *Supervising Critic, Sixth Grade*

CLARA HOCKRIDGE DELAND, A.M., *Supervising Critic, Special Education*

JANET PURSER WILSON, A.M., *Acting Supervising Critic, Kindergarten*

### MECHANICSBURG SCHOOL

HERBERT FREDERICK SPITZER, A.M., *Principal, Supervising Critic, Seventh and Eighth Grades*

\*EVA ANNA RICHARDSON, A.M., *Supervising Critic, First Grade*

EDNA E. FELT, A.M., *Acting Supervising Critic, First Grade*

CONSTANCE H. BARKER, A.M., *Supervising Critic, Second and Third Grades*

MARY VIRGINIA NESOM, A.M., *Supervising Critic, Third and Fourth Grades*

AGNES L. EISEN, A.M., *Supervising Critic, Fifth and Sixth Grades*

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\* On leave of absence.

## THE PLAINS ELEMENTARY SCHOOL

HARRY VICTOR MASTERS, Ph.D., *Head of The Plains Schools*

ELVA COOPER, A.M., *Principal, Supervising Critic, Sixth Grade*

ANNIE GOCHNAUER, A.M., *Supervising Critic, First Grade*

HELEN LESLIE DUNLAP, A.M., *Supervising Critic, Second Grade*

EBBA LOUISE WAHLSTROM, A.M., *Supervising Critic, Third Grade*

ALTA COOPER, A.M., *Supervising Critic, Fourth Grade*

IRENE CONSTANCE ELLIOTT, A.M., *Supervising Critic, Fifth Grade*

## THE PLAINS HIGH SCHOOL

HARRY VICTOR MASTERS, Ph.D., *Head of The Plains Schools*

DWIGHT F. PULLEN, A.M., *Principal, Supervising Critic, Mathematics and Science*

HERMAN WILLIAM HUMPHREY, A.M., *Supervising Critic, Commerce and Industrial Education*

ANNA BERYL CONE, A.M., *Supervising Critic, Home Economics*

VILAS O. KAIL, A.M., *Supervising Critic, Agriculture*

LOUISE JANE DIVER, A.M., *Supervising Critic, English*

EDGAR BERTHOLD RANOW, A.M., *Supervising Critic, Physical Education and History*

ADDA LENORE MACCOMBS, A.M., *Supervising Critic, Latin*

## GENERAL INFORMATION

### THE FOUNDING OF THE UNIVERSITY

Soon after the settlement of Marietta in 1788, initial plans for establishing a new college in the Northwest Territory began. In 1799 General Rufus Putnam staked off lands for a university site. On January 9, 1802, plans for the organization of the university culminated in a charter, modeled after that of Yale University, which was duly granted by the Territorial Legislature and approved by Arthur St. Clair, the governor of the Northwest Territory. The name given to the institution was The American University.

On the 18th of February, 1804, the Ohio Legislature passed another act "establishing a University in The Town of Athens," differing in some respects from the act of 1802. The corporate name was changed to The Ohio University. At this time the state assumed the trusteeship of the University. The Rev. Jacob Lindley was elected the first president, and, a building having been erected, the first college in the Old Northwest opened its doors to students on June 1, 1809. The first commencement was held on March 3, 1815.

### LOCATION

Athens, where the University is located, is situated in the hills of the Allegheny plateau on the banks of the Hocking River in southeastern Ohio. It is seventy-six miles southeast of Columbus at the intersection of state highway 31, on the short route from Detroit to Florida, and national highway 50 east and west from coast to coast. It is also easily accessible by rail on the Chesapeake and Ohio, New York Central, and Baltimore and Ohio railroads. Athens has an adequate airport.

### BUILDINGS AND GROUNDS

The grounds of the University consist of about seventy-two acres. At the entrance to the campus is the gateway erected by the alumni in 1915 in honor of the 100th anniversary of the first graduating class of the University. On the campus, which consists of about ten acres, are located eleven buildings. Manasseh Cutler Hall, formerly known as the Central Building, was erected in 1817, and is the oldest college edifice northwest of the Ohio River. The first floor contains the offices of two deans of instruction, the Dean of Men, and the Bureau of Appointments; the second and third floors are used by the Department of Psychology. East Wing and West Wing, on either side of Cutler Hall, are nearly as old. In East Wing are the offices of the Alumni

Secretary, the Service Bureau, and the Extension Division; the third floor is used by the Department of Philosophy. In West Wing are the office of the Dean of Women, and the rooms for the Y.W.C.A. and Women's League. Ewing Hall, named in honor of Honorable Thomas Ewing of the Class of 1815, contains classrooms and the offices of the President, the Registrar, and the Treasurer. The Memorial Auditorium, a building costing \$350,000, was made possible by the contributions of alumni and friends of Ohio University, and by an appropriation by the Ohio Legislature. It has a seating capacity of over 2,800. The remaining buildings on the campus are: Fine Arts Building; Ellis Hall, the first building erected for the training of teachers in Ohio at the expense of the state; the Women's Gymnasium; the Carnegie Building; the Edwin Watts Chubb Library; and Boyd Hall, a dormitory for women with accommodations for eighty-six students.

Around the campus are the following: Agricultural and Household Arts Building; the greenhouse; the University Infirmary; Music Hall; Lindley Hall, a women's dormitory accommodating one hundred and six students; Warden Cottage for women; the Men's Faculty Club; the Men's Union; Howard Hall, a women's dormitory accommodating seventy-four students; the President's home; and the Home Economics Practice House and Nursery School.

The Men's Gymnasium, Super Hall, Music Hall Annex, Science Hall, and the Birchfield-Bethel co-operative house for men complete a unit of buildings between the campus and the athletic field.

The remaining buildings which are only a short distance from the campus are: Rufus Putnam Hall located on East Union Street, an elementary training school; the Women's Faculty Club; the Hoover, Pearl Street, Dunkle, and Palmer Hall co-operative houses for men; the Dailey cottage and Howard Hall annex for women; and the Central Heating Plant.

The Athletic Field, composed of about fifty acres, contains the Stadium, tennis courts, caretaker's house, and baseball park.

### THE EDWIN WATTS CHUBB LIBRARY

The Edwin Watts Chubb Library contains 100,124 volumes and receives about 430 periodicals annually. The comparatively new building has reading and seminar rooms with a seating capacity of 600. A seminar room and stack carols are set apart for the use of graduate students. The stacks, consisting of six floors, and periodical and reference rooms will accommodate 250,000 volumes. It is a designated depository of United States documents which are classified and catalogued by the Dewey system.

Among the acquisitions of the library are valuable books on mathematics, from the library of the late Dr. R. L. Borger; on psychology, the gift of the Department and Dr. J. P. Porter; and the public documents belonging to the Honorable Thomas Ewing, presented by his grand-daughter, Mrs. Edwin S. Martin of New Straitsville, Ohio. Through the efforts of Dr. C. W. Super, a former president, members of the class of '92 have paid into the State Treasury a fund of \$1,000, the interest on which is used by the library for the purchase of books. Each volume thus purchased contains a suitable inscription.

In the Art Gallery are hung throughout the year exhibitions loaned by art museums, dealers, and artists. There is also a permanent collection of

paintings owned by the University which include the portraits of former presidents of the University and a portrait of the Dean of Women, Irma E. Voigt.

An unusual feature of the University library is the juvenile room, which is open to the children of the town, and which cares for the needs of the public schools. It gives student teachers an opportunity to become familiar with a well chosen collection of children's literature and to learn how a model children's room should be equipped and administered.

During the regular sessions of the University, the library is open daily from 7:50 A.M. to 9:30 P.M., except during vacation when it closes at 5:00 P.M., and on the Sundays of the academic year from 1:30 P.M. to 5:00 P.M. During the summer session, the library is open daily except on Sunday from 6:50 A.M. to 9:30 P.M. The library is not open on Sunday during the summer months from June until the opening of school in the fall.

Books belonging to the reference collections, rare and unusual books, bound periodicals, and documents are not circulated. Books reserved for use in connection with current courses are loaned only over night and not until after 9:00 P.M. All other books may be borrowed for a period of two weeks.

The stacks are open to faculty, graduate students, and seniors. All others must call for their books at the circulation desk.

### MUSEUM

The Museum, which contains more than 75,000 specimens, is located on the second floor of the Agricultural and Household Arts Building. The earliest recorded specimen, received in 1823, was a section of basalt from one of the pillars of the Giant's Causeway on the coast of Ireland.

The collections of rocks, minerals, and fossils number more than 30,000. There are sands, clays, and clay-products; Indian implements and utensils; stone and metal products of historic and economic interest; war materials and the fighting implements of various races; and lamps and lighting devices from the earliest ages. The plant collections include an herbarium of about 750 local species of plants, an extensive seed collection, woods, and various plant products. Among the animal exhibits are found sponges, jellyfishes, corals, various parasitic worms, starfish, and sea urchins; while the mollusca collection ranks among the best shown in American museums. There is also a collection of fishes, amphibians, reptiles, birds, and mammals.

Teachers are invited to make a wide use of the collections in their special fields of interest. Friday has been set aside as visiting day.

### BUREAU OF APPOINTMENTS

The University maintains a bureau for the recommendation of its students and graduates to teaching positions and a similar placement service for those seeking business and industrial connections. The service is extended to those seeking initial placement and to those who seek advancement to more desirable positions. Registration with the Bureau makes possible the collection of pertinent information into a complete record form which may be offered conveniently to persons interested in securing employees.

All students should register with the Bureau early in the senior year; those completing the two-year diploma courses, in the second year. All records are kept up-to-date so that a complete record may be available for immediate use.

## FEES AND DEPOSITS

There is no charge for tuition in any of the regular classes, but all students shall pay a registration fee each semester or summer session. From the semester fee, the sum of \$5.00, known as the A. L. E. fee (Athletic, Lecture and Entertainment Fund) shall be assigned to the Campus Affairs Committee to be apportioned to athletics, the University Infirmary, convocations, and other student activities. From the summer session fees the sum of \$2.50 will be assigned in like manner.

The Treasurer will accept cash, postal money orders, express money orders, and approved personal checks for the exact amount of the obligation.

## REGISTRATION FEES

## Registration Fee for—

## Each Semester

*Students who are legal residents of Ohio.....	\$45.00
**Non-resident students.....	70.00
Part-time students who register for less than 9 semester hours in a semester, A. L. E. fee of \$5.00 and for each semester hour.....	3.00
Summer Session is half of the semester fee.	
Part-time students who register for less than 5 semester hours in the summer session, A. L. E. fee of \$2.50 and for each semester hour.....	3.00
Post Summer Session, for each semester hour.....	5.00
Auditing, for each semester hour.....	2.00
Correspondence Study, postage fee of 50 cents for each semester hour and for registration for each semester hour.....	6.00
Group Extension, for each semester hour.....	5.00

\*A person is entitled to register as a resident of Ohio, who at the time of his first enrollment in the University has been a resident of the State of Ohio for twelve consecutive months next preceding the date of his original enrollment. No person shall be considered to have gained or lost a residence in the state for the purpose of registering in the University by any conduct of his own while he is a student in the University. A person whose legal residence follows that of other persons shall be considered to have gained or lost legal residence in this state for such purpose while a student in the University according to changes of legal residence of such other persons, except that such legal residence shall not be considered to be so gained until twelve months after such persons become legal residents of this state.

The residence of minors shall follow that of the legal guardian, regardless of emancipation; but in case a resident of Ohio is appointed guardian of a non-resident minor, the legal residence of such minor for the purpose of this rule shall not be considered to be established in the State of Ohio until the expiration of twelve months after such appointment.

\*\*Students coming from states which do not have state universities similar in scope and standards to Ohio University will pay a registration fee of \$95.00. These states are: Connecticut, Massachusetts, New Jersey, and New York.

**MUSIC FEES**

(These fees are in addition to Registration Fees)

Band Instruments, Organ, Piano, Violin, Violoncello, Voice

One lesson a week.....	\$15.00
Two lessons a week.....	24.00
Ensemble Conducting.....	24.00
Harmony — private instruction.....	16.00

Music Fees for summer session are one-half of the above.

**MISCELLANEOUS FEES**

Bureau of Appointments — registration fee.....	\$ 1.00
Change Order.....	1.00
College Ability Test not taken at the regular time.....	1.00
Diploma	
For degree.....	5.00
For two-year teacher's course.....	2.50
For re-application.....	1.00
Penalty for late application.....	1.00
For Excuse from Commencement.....	5.00
Examination for advanced standing — each examination.....	1.00
Hospital — for each day.....	1.50
Late registration	
Each day late.....	1.00
Maximum penalty.....	10.00
Record Book (after the first book).....	1.00
Transcript of Record (after the first transcript).....	1.00
Transfer from one bachelor's degree granting college to another.....	5.00

**LABORATORY FEES**

Laboratory fees are assessed at the rate of one dollar for one semester hour of credit. Laboratory fees are indicated in course description. See Courses of Instruction. These fees are assessed and must be paid at registration time.

Laboratory fees for the summer session are the same as for a semester.

**BREAKAGE FEES**

All laboratory courses in Chemistry require a breakage deposit of three dollars each semester. When the fee is paid a deposit card will be issued to the student. This card will be deposited by the student with the Chemistry Department and will entitle the student to a desk properly supplied with apparatus. Any needed supplies will be checked from the card and any unused portion of the fee will be returned at the end of the year or upon withdrawal from the course.

**REFUND OF FEES**

In case of a student's voluntary and official withdrawal from the University before the end of the first third of the semester, a refund of a part of the fees paid will be made according to the following schedule:

1. Within the first week, 10 per cent retained.

2. After first week, from second to third weeks, inclusive, 33 $\frac{1}{3}$  per cent retained.
3. After three weeks, from fourth to sixth weeks, inclusive, 75 per cent retained.
4. After six weeks, no refund.

No refunds, however, will be made until a period of thirty days has elapsed subsequent to the actual withdrawal of the student from the University.

When a student withdraws from a laboratory course by Change Order, a refund will be made immediately according to the above schedule.

### EXPENSE ESTIMATE

As persons frequently wish to know how much it will cost to spend a year at Ohio University, the following estimates are presented:

Lowest		Medium	
*Registration Fees -----	\$ 90.00	*Registration Fees -----	\$ 90.00
Board -----	110.00	Board -----	162.00
Room -----	54.00	Room -----	90.00
Text books and supplies ----	25.00	Text books and supplies ----	30.00
Laboratory fees -----	6.00	Laboratory fees -----	8.00
<hr/>		<hr/>	
Total -----	\$285.00	Total -----	\$380.00

This summary does not take into consideration expenses for travel, clothing, laundry, or incidentals, which are subject to the personal control of the individual.

Students can have their railroad expenses decreased by taking advantage of the reduced fare, one and one third, to be offered by the Central Passenger and Trunk Line Associations.

\*For non-residents of Ohio, \$140.00 or \$190.00.

### ROOMS AND BOARD FOR MEN

**Men's Housing Bureau.** The Housing Bureau for Men is located in the office of the Dean of Men, Cutler Hall. Since the University does not maintain dormitories for men students, rooms are provided for them in private homes which have been inspected and approved by the Housing Bureau. Freshmen are required to live in approved rooming houses. Rates for rooms vary from \$1.25 to \$2.50 a person a week for double rooms; \$2.00 to \$4.00 for single rooms. Rooms in private homes are engaged for the semester and are paid for weekly in advance, unless other arrangements are made with the householder.

A student signing the "Householder's Agreement" is expected to abide by the contract unless it is terminated by the mutual consent of both parties, by the withdrawal of the student from the University, by the securing of a satisfactory substitute, or by the request of the Dean of Men if in his judgment it is for the best interest of the student's health or scholarship. Copies of this Agreement can be secured at the office of the Dean of Men.

**The Men's Grill.** The Men's Grill, located on the ground floor of the Agricultural and Household Arts Building, is under the supervision of the Director

of Dining Halls. Menus are arranged by the University dietitian with special attention given to well-balanced meals. Cafeteria service prevails at very reasonable rates. Board can also be secured at boarding houses, clubs, restaurants, and a few private homes.

**Men's Co-Operative Houses.** The cooperative project was begun at Ohio University in September of 1933. Under this plan one hundred and twelve men are housed in three units, and ninety-two men at the same rate in nearby private homes. Living expenses at the University are thus reduced approximately fifty percent.

The rooms in the cooperative houses rent for \$1.50 a week per person for a double room. The University furnishes the bedding and furniture and provides for the laundering of the bedding. Towels, soap, extra blankets, and other articles are furnished by the student. Room rent is payable at the office of the Treasurer of the University in advanced installments covering periods of five weeks, five weeks, four weeks, and four weeks. Similar arrangements are made with the householders who rent their rooms under this plan. The cost of the meals averages \$2.50 a week, although no guarantee can be made to maintain this rate, as prevailing food prices and unforeseen circumstances vary the cost from week to week. This low rate is made possible because each student cleans his own room, takes his turn washing dishes and waiting on table, and performs other duties assigned by the student manager.

The boarding units are under the direction of a competent woman who arranges the menus, makes all purchases, and supervises the kitchens and dining rooms with the assistance of the matron who lives in the unit. Student managers and proctors under the direction of the Dean of Men have the responsibility of assigning the work, making the assessments and collections, and maintaining discipline.

Persons desiring information should write to the Dean of Men.

## ROOMS AND BOARD FOR WOMEN

The living accommodations of all women in the University are under the supervision of the Dean of Women and the Secretary of Housing. There are three dormitories, Boyd Hall, Howard Hall, and Lindley Hall, and three cottages, which accommodate freshman women and a restricted number of upperclass women. Eight sorority houses are maintained for the active members of the social sororities, and a list of private homes which have been inspected and approved by the Secretary of Housing is available in the office of the Dean of Women for the remainder of the upperclass women.

Double rooms in the dormitories rent for \$2.25 a week for each student, and single rooms for \$3.00 a week, payable in advance during the first week of the semester. In addition to the rental fee, every dormitory resident gives approximately one hour a week in telephone and desk service, or its equivalent, twenty-five cents a week. Some of the double rooms in the cottages rent for \$1.50 a week for each student. Applications for room reservations should be made through the office of the Dean of Women. A retaining fee of \$5.00 must accompany the application, payable to the Treasurer of Ohio University. If a student is unable to claim her reservation, the fee will be refunded provided the request is made at least one week before the day upon which regis-

tration begins. If all dormitory and cottage rooms have been reserved before the fee is received, and the waiting list has been closed, the fee will be refunded at once with the recommendation that the applicant secure a room from the approved list of private homes. The retaining fees of all students securing reservations in the dormitories and cottages are applied on the room rent of those students for the current semester. A deposit of \$1.00 is required of each student for a key to her room. This amount is refunded upon the return of the key when the room is vacated.

The University makes an appropriation, based upon the number of students in residence, to each dormitory which enables it to carry on a social program including dances, dinner parties, and teas. Rooms are furnished with rugs, dressers, study tables, chairs, beds, and bedding. The University cares for the laundering of the bedding. Such articles as couch covers and window draperies are supplied by the students.

A dining room is maintained in each of the three dormitories, under the management of a competent dietitian. The board, which is \$4.50 a week, totaling \$81.00 for the semester, may be paid in advance during the first week of the semester; or it may be paid in four installments, at the beginning of each period. Dormitory and cottage residents are required to eat in their respective dining halls.

Freshman women must reside in University dormitories or cottages unless exemption is granted by the Dean of Women. In the case of a late entrant for whom space has not been reserved, she will be assigned to rooms in a private home especially approved for freshman residence, and to one of the dormitory dining halls, where she becomes a part of the dormitory life and is entitled to all of the social privileges of that dormitory. Exemptions from the requirement that freshmen live in the University dormitories or cottages are granted to residents of Athens or commuters, and to other students only upon the receipt from the parents of a request for exemption, stating in detail the reason why exemption seems justifiable. The Dean of Women will pass personally upon all such requests and determine the validity of the grounds presented.

## EMPLOYMENT OPPORTUNITIES FOR STUDENTS

In the offices of the Dean of Men and the Dean of Women are Secretaries of Part-time Employment who assist students in finding work. The University cannot promise jobs to prospective students, but a considerable number of both men and women, through their own initiative and with the help of these secretaries, secure employment and earn a part of their college expenses in the University dormitories and offices and also in private homes, restaurants, and business houses in Athens. No student should enter college expecting to support himself entirely. In the main it is not advisable for the students who are doing part-time work to carry a full program of studies. They are encouraged to lengthen the college course rather than attempt to carry too heavy a burden.

Students who work are required to register their positions with the Secretaries of Part-Time Employment.

## LOAN FUNDS

### ALUMNI LOAN FUND

The alumni and friends of the University have contributed \$7,128 since 1908, for the purpose of furnishing loans to students pursuing a four-year course in the University. To receive a loan, a student must have completed one-half of his course. Five per cent interest is charged. Since the first loan was made in 1908 over \$50,878 has been advanced to needy students. The fund is administered by the Dean of the College of Arts and Sciences.

### ATHENS ROTARY CLUB LOAN FUND

The Rotary Club of Athens maintains a loan fund for students of Ohio University. Students pay interest on the loans. The fund is in charge of a committee from the Rotary Club. Inquiries may be addressed to the Dean of the College of Education.

### THE WOMEN'S LEAGUE LOAN FUND

Since 1913 the Women's League of Ohio University has maintained a loan fund for women students. A sum not to exceed \$100 may be borrowed by a student who has spent at least one year on the campus. Collateral or payment guaranteed by a parent is required. Six per cent interest is charged. The Dean of Women acts as treasurer of the fund.

## SCHOLARSHIPS AND FELLOWSHIPS

The University offers a limited number of scholarships for entering freshmen on the basis of rank in high school studies. Students in the upper five per cent of any graduating class are eligible to apply.

Scholarships are available in limited number, on the basis of financial necessity, to sophomores who made a scholastic average of 2.0 in their freshman year and to juniors and seniors who have made a scholastic average of 2.2.

A limited number of fellowships carrying a stipend of \$350 a year are granted. The fellowships carry with them an obligation to assist in the department in which the student is doing graduate study.

### COLUMBIA DOWNING SCHOLARSHIP

Mrs. Madeline Downing Knight, South Jacksonville, Florida, has established a scholarship fund of \$10,000 as a memorial to her father, Columbia Downing, who in the early sixties was a student at Ohio University. The income of the fund \$600, is awarded annually under the following conditions:

1. The scholarship is to be known as the Columbia Downing Scholarship.
2. The scholarship is to be awarded to a needy boy who is a citizen of Ohio, preferably a native.
3. The scholarship is to be awarded to a member of the sophomore class on the basis of mental and physical health, demonstrated intelligence in his work as a freshman, acceptable character and conduct, and a satisfactory grade of scholarship as a freshman.

4. Students who have done effective work in some extra-curricular activities, such as debates, music, oratory, or athletics, shall have preference.

5. The scholarship may be renewed in the junior and senior years, provided the need continues and the standards, as set forth in No. 3 are maintained.

6. The selection is not to be based entirely upon proficiency in any subject, but rather on the promise of development in strength of character and the qualities of useful citizenship.

### HARRIET TENAN SCHOLARSHIPS

The Harriet Tenan Scholarships are awarded to the entering freshman boy and girl from McConnelsville, Ohio, who are recommended by the pastor of the Methodist Episcopal Church and the Editor of the Morgan County Democrat. The awards of \$30.00 for a boy and \$30.00 for a girl are made possible by the gift of \$1,000 by the founder of the fund, and are granted each year.

### RHODES SCHOLARSHIPS

Men who have completed their sophomore year at Ohio University are eligible to compete for the Cecil Rhodes Scholarship, tenable for three years at Oxford University, England, with a stipend of \$2,000 each year. These scholarships are awarded on the combined basis of character, scholarship, athletics, and leadership in extra-curriculum activities. Information may be obtained from Dr. Victor Whitehouse, Ohio University.

## PRIZES AND AWARDS

### ALLIANCE FRANCAISE PRIZE

The Alliance Francaise offers each year a prize of \$15.00 to the advanced student having the highest record in the Department of French. A student who has once won the prize will not be eligible for consideration.

### ALPHA DELTA PI SCHOLARSHIP PRIZE

The Xi Chapter of Alpha Delta Pi offers each year a prize of a silver loving cup to the girl who has attained the highest scholarship average at the end of her sophomore year. Any girl is eligible to compete for the prize.

### CHI OMEGA ECONOMICS PRIZE

The Tau Alpha chapter of Chi Omega, in accordance with the national policy of the fraternity begun in 1920, offers each year a prize of \$25.00 to the girl who does the highest grade of work in the Department of Economics. Any girl in the University is eligible to compete for the prize.

### EMERSON POEM PRIZES

W. D. Emerson, of the class of 1833, bequeathed to the Trustees of Ohio University the sum of \$1,000. The interest on this amount is to be awarded every second year to the students or graduates of Ohio University who shall write the best original poems. The award has been divided into three prizes of \$60.00, \$40.00, and \$20.00. The judges shall be three persons appointed by the President and the Professor of English Literature who shall judge independently of each other.

The conditions of the competition for the Emerson Prize must be observed in every particular:

1. The competitors must be graduates of the University or students in attendance.
2. The poems must be in the hands of the President of the University before the opening of the second semester of 1936-1937.
3. Only one poem is to be submitted by each competitor.
4. Each contestant shall submit three copies.
5. The poem shall be typewritten on paper eight and one-half by eleven inches, written only on one side, and marked with a pseudonym or character.
6. The pseudonym or character accompanied by the name and address in a sealed envelope shall be sent to the President of the University. The envelopes will not be opened until the decision of the judges has been made.

The winner of the first prize is not eligible for a second competition.

### EVANS LATIN PRIZES

The Dafydd J. Evans Latin prizes consist of a first prize of \$25.00 and a second prize of \$12.50 each year. The awards are made on a competitive basis varying somewhat according to the will of the committee. For the present the ability to read Latin and the knowledge of Latin syntax will be stressed, but some attention will be given to Roman history, literature, and life. It is not expected that students will ordinarily compete for these prizes before entering upon the second semester of junior-senior Latin.

The committee consists of Professors Hill and Scott and the Alumni Secretary.

### HORN SENIOR COMMERCE PRIZE

Mr. Clarence H. Horn of Athens, Ohio, for a number of years before his death on November 26, 1927, conducted for the School of Commerce a senior course in "Accounting for Coal Production and Distribution." From fees received by him for this service he established a trust fund, the income from which shall be paid annually to the senior who is graduated from the College of Commerce with the degree of Bachelor of Science in Commerce, and who has the highest number of scholastic points in commerce subjects. The prize will amount to approximately \$24.00.

### JOHN BAYARD THOMAS BIOLOGY PRIZE

The John Bayard Thomas prize in biology has been established by Dr. Josephus Tucker Ullom, '98, as a memorial to his nephew. The prize consists of \$50.00 to be awarded annually to the junior or senior pre-medical student who has done the highest grade of work in courses offered by the Department of Zoology. In making the award, consideration will be given to the subjects covered and the quality of work performed. A student who has once won the prize will not again be eligible for consideration.

The committee on awards consists of the Head of the Department of Zoology and the Dean of the College of Arts and Sciences.

### MEN'S UNION SCHOLARSHIP PRIZES

The Men's Union awards a medal each semester to the man having the highest scholastic standing, a cup to the social organization having the high-

est average in scholarship, and a cup to the pledge chapter having the highest scholastic standing for the first semester.

#### PI THETA KINDERGARTEN AWARD

The Beta Chapter of Pi Theta presents each year a silver loving cup to the student in the Kindergarten-Primary Department who has attained the highest scholastic average at the end of her freshman year. The award is also based on personality and professional attitude.

#### SIGMA ALPHA IOTA MUSIC PRIZE

The Sigma Alpha Iota Sorority gives the prize of \$25.00 to the sophomore woman enrolled for the degree of Bachelor of Fine Arts in Music who has attained the highest number of scholastic points.

#### SUPER GREEK PRIZES

In honor of Dr. Charles W. Super, a former president of Ohio University and professor of Greek, the Super Scholarship Prize Fund of \$2500 was established by his friends and former students. The income from this sum provides a first prize of \$100 and a second prize of \$50.00 to be awarded annually to members of the junior and senior classes. The first award was made in June, 1930.

The consideration in determining the awards are the extent and quality of the work done in courses in Greek language, literature, civilization and culture, classical culture in general; and in courses in language as a whole.

The committee in charge of the awards consists of the Chairman of the Department of Classical Languages and the Dean of the College of Arts and Sciences. The two may select a third member. Details may be secured from members of the committee.

#### TAU KAPPA ALPHA FORENSIC PRIZES

Each year the Women's Division of the Ohio University Chapter of Tau Kappa Alpha conducts three contests; one in oratory, for the award of an oratory medal; one in oral interpretation of poetry, for a poetry medal; and one in declamation, a feature of Mother's Week End, for the Voigt prize given by the Dean of Women, Irma E. Voigt.

#### WOMAN'S MUSIC CLUB PRIZES

The Woman's Music Club of Athens gives each year two prizes of \$25.00 each to the senior students who have majored in music and who have attained the highest scholastic average. One prize is given to the student who is graduated with the degree of Bachelor of Fine Arts in Music, and the other to the student who is graduated with the degree of Bachelor of Science in Education.

#### WOMEN'S LEAGUE SCHOLARSHIP AWARD

The Women's League awards a prize of \$10.00 for high scholarship to the woman student who has been in residence at Ohio University for a period of three semesters and who has the highest scholarship average for a period of two consecutive semesters, extending from February to February in the preceding and current years.

## STUDENT ORGANIZATIONS

## Honor Societies

Phi Beta Kappa, established at Ohio University in 1929, is a society for the recognition of high scholarship attainment of men and women primarily enrolled in the College of Arts and Sciences.

Kappa Delta Pi, established at Ohio University in 1923, is a society for the recognition of high scholarship attainment of men and women primarily enrolled in the College of Education.

Phi Eta Sigma, established at Ohio University in 1936, is a society for the recognition of high scholastic attainment for freshman men.

## Honorary Organizations

\*Torch, established at Ohio University in 1913, is an organization primarily for senior men who have attained recognition in activities.

\*Cresset, established at Ohio University in 1913, is an organization primarily for senior women who have attained recognition in scholarship and activities.

\*Phoenix, established at Ohio University in 1930, is an honorary organization for senior women.

\*\*\*"J" Club, established at Ohio University in 1930, is an honorary organization for junior men.

Blue Key, established at Ohio University in 1927, is an honorary organization for fraternity men. The membership is limited to two from each fraternity.

## Honorary and Professional Fraternities and Organizations

## Men

Engineering—	Journalism—Sigma Delta Chi
American Institute of Electrical Engineers	Music—Kappa Kappa Psi (Band)
*Pi Epsilon Mu	Phi Mu Alpha
Industrial Arts—Epsilon Pi Tau	Physical Education—*Delta Pi Alpha

## Men and Women

Botany—*Kappa Alpha Beta	Journalism—Kappa Tau Alpha
Classical Languages—Eta Sigma Phi	Painting and Allied Arts—
Commerce—*Commerce Honor Club	Delta Phi Delta
Dramatic Art—	Pre-Medical—*Kappa Iota Alpha
Choregi (Dramatics)	Psychology—Psi Chi
Tau Kappa Alpha (Speech)	Sociology—Alpha Kappa Delta
Education—	
Lambda Tau Sigma (Special Education)	

## Women

Education—	Journalism—*Sigma Rho
Pi Theta (Kindergarten-Primary)	Music—Sigma Alpha Iota
Home Economics—	Physical Education—Phi Delta Pi
Phi Upsilon Omicron	
* Local	

## Social Fraternities

## Men

Beta Theta Pi—Beta Kappa Chapter, 1841  
 Delta Tau Delta—Beta Chapter, 1862  
 Phi Delta Theta—Ohio Gamma Chapter, 1868  
 Sigma Pi—Epsilon Chapter, 1910  
 Phi Kappa Tau—Beta Chapter, 1917  
 Lambda Chi Alpha—Ohio Alpha Omega Chapter, 1918  
 Theta Chi—Alpha Tau Chapter, 1925  
 Tau Kappa Epsilon — Alpha Beta Chapter, 1927  
 Phi Kappa—Psi Chapter, 1929  
 Pi Kappa Alpha — Gamma Omicron Chapter, 1929  
 Alpha Phi Delta—Beta Zeta Chapter, 1933  
 Phi Epsilon Pi—Alpha Rho Chapter, 1933

## Women

Pi Beta Phi — Ohio Alpha Chapter, 1889  
 Alpha Gamma Delta—Zeta Chapter, 1908  
 Alpha Xi Delta—Pi Chapter, 1911  
 Chi Omega—Tau Alpha Chapter, 1913  
 Alpha Delta Pi—Xi Chapter, 1914  
 Zeta Tau Alpha—Alpha Pi Chapter, 1922  
 Theta Upsilon—Kappa Chapter, 1925  
 Phi Mu—Delta Delta Chapter, 1927

## Departmental Clubs

Chemistry—Chemistry Society  
 Classical Languages—Classical Club  
 Dramatics—Playshop  
 Education — Kindergarten - Primary Club  
 English—  
   Book-Lovers Club (Men)  
   English Club  
   Folk Lore Club (Women)  
   Poetry Society of America  
   Quill Club  
 French—Alliance Francaise  
 German—Der Deutsche Verein  
 Journalism—News Photography Club  
 Industrial Arts—Industrial Arts Club (Men)

Music—Music Education Club  
 Philosophy—Philosophy Club  
 Physical Welfare—  
   Aquatic Club (Women)  
   Club of 8 (Fencing)  
   Hygeia Club  
   Studio Club (Women)  
   Varsity "O" Associations  
   Women's Athletic Association  
 Physics—  
   Physics Club  
   Radio Club  
 Pre-Law—Pre-Law Club  
 Spanish and History—Hispanic-American Club

## General Student Organizations

Cosmopolitan Club  
 Interfraternity Council  
 International Relations Club  
 Liberal Club  
 Men's Union

Ohio Federation for Peace  
 Women's League  
 Women's Pan-Hellenic Council  
 Y. W. C. A.

## ADMISSION

*All correspondence regarding admission of students to the residence courses of the University should be addressed to the Registrar, Ohio University, Athens, Ohio. An application blank and credentials for admission should be presented to the Registrar's office not later than one month preceding the opening of the semester or summer session. If it is impossible for a student to have his credentials forwarded at this time, he should attach the necessary explanation to his application for admission. Not even temporary admission will be granted in the absence of proper credentials. All credentials of matriculated students will be filed in the Registrar's office and will remain the permanent property of the University.*

The University admits without examination all graduates of high schools in Ohio which have been classed as First Grade by the State Department of Education. A student who has completed with satisfactory grades fifteen acceptable units of work in a first-grade high school may be admitted upon the recommendation of the high school principal. Out-of-state students are accepted if they can qualify for admission to their own state universities. Residents of states which do not support state universities of the same general scope and standard as Ohio University are admitted if they rank in the upper two thirds of their graduating classes.

Courses completed in high school must meet the following requirements outlined by the State Department of Education:

- Two units of English
- Two units of social studies, one of which shall be advanced American history ( $\frac{1}{2}$ ) and civics ( $\frac{1}{2}$ )
- One unit of natural science
- Two majors of three units each
- Two minors of two units each

All students who have taken the College Ability Test should present with their other entrance credentials an official record giving the form number, the score, and the centile ranking. All others will be expected to take the test during registration day at the University. Those who neglect to take the test until a later date will be assessed a fee of one dollar.

Persons twenty-one years of age or older are admitted to the University if they pass the College Ability Test by a sufficiently high score to indicate that they can do college work satisfactorily, even though they may have had no high school training or have had only partial training. Such students, however, may not become candidates for degrees until deficiencies in their high school education have been made up. For further explanation see the description of the provision for elective study under the University College.

Students coming from other institutions of higher learning, on presentation of an official transcript of high school and college credits, including a statement of honorable dismissal, will be admit-

ted on the same basis as other students of similar rank in Ohio University, except that no student under probation shall be so admitted.

**Examination for Advanced Standing**—Students who desire to receive credit for advanced standing by examination should make application to the Registrar for permission to take the examinations at the same time as application for admission is made, and not later than one month after matriculation. The special examinations must be taken during the first semester or summer session of the students' attendance. A fee of one dollar is charged for each examination.

**Admission as an Auditor**—A student who is a graduate of a first grade high school or who is twenty-one years of age or more may enroll as an auditor. A written permission from the instructor of the class the student wishes to audit must be presented to the Registrar's office. A fee of two dollars is charged for each semester hour of the subject. Registration must be made in the Registrar's office on the regularly scheduled days.

**Admission to Graduate Study**—Graduates of Ohio University, as well as graduates from other institutions granting approved degrees, may be admitted to the Graduate College upon formal application and upon approval by the Graduate Council. For further information see the description of the Graduate College.

## GENERAL REGULATIONS

### Grading and Point System

A—Very High  
B—High  
C—Average  
D—Passing

E—Conditioned  
F—Failure  
I—Incomplete  
W—Withdrawn

A semester hour is the equivalent of one recitation a week throughout a semester. For each semester hour of work completed with a grade of A the student receives three points; B, two; C, one; and D, none; E and I, none until the final grade is determined; and F, none. A student's semester average is determined by the number of points accumulated by the grades reported at the close of the semester.

The grade E is given to a student who is not doing passing work but who has the possibility of receiving credit in the course by additional work or by the continuation of a year course. The grade I is given for the work of a student who has a satisfactory record in the course but whose work is not complete. E and I grades must be made up within one month after the opening of the next session in which the student enrolls except when an E has been given in the first semester of a year course. After a student has made up the required work any grade may be given. One

week is allowed to the instructor for the reporting of the grade to the Registrar's office.

F is failure. Credit for the course can be secured only by re-registration and repetition of the course with a passing grade.

W is indicated by the instructor when a student officially withdraws from class. When a student does not withdraw by Change Order or by Withdrawal Order, he shall be given F in the course.

**Reporting of Grades**—Grades for all students are reported to the Registrar's office at the end of each semester and summer session. E, F, and I grades are reported by mail to the students immediately after the close of each session. All grades are reported to the students by means of their Record Books soon after the close of the session provided the students leave their Record Books in stamped self-addressed envelopes at the Registrar's office.

A Record Book is an unofficial copy of a student's record. A student first receives a Record Book at the time of his admission to the University. A duplicate Record Book will be made for a student at his request and the payment of one dollar.

During the semester grades for students enrolled in the University College are reported every six weeks to the Dean of Men or to the Dean of Women.

**Honors**—Candidates for bachelor degrees who graduate with high scholastic average are distinguished on the commencement programs and in the annual catalog by the notation "With highest honor" or "With high honor." Students who make a scholastic average of 2.500 or above graduate "With highest honor." Those who make a scholastic average below 2.500 and have an average of 2.000 or above graduate "With high honor." Transfer students will be similarly distinguished if their entire records meet the requirements.

**Probation**—A student may not register for more than 14 semester hours under these conditions:

- (1) A student who fails to make points equal to one-half the number of hours he has carried during the semester is placed on probation and is limited to 14 hours during the succeeding semester.
- (2) A student may resume a normal load only when he has demonstrated that he can carry the reduced load with an average grade of "C."
- (3) A student is removed from probation when he has maintained an average grade of "C" on a normal load.

**Diploma**—A candidate for a degree or a diploma must file his application for graduation in the Registrar's office not later than the dates given in the University Calendar. The diploma fee for a degree is five dollars; for a two-year diploma, two dollars and fifty cents. The penalty for application after the time assigned is one dollar. If an applicant fails to meet the requirements for graduation, he will be required to re-apply and pay one dollar.

Degrees and diplomas are granted at the end of each semester and summer session. Commencement exercises are held in June at the close of the second semester and in August at the close of the first summer session; at these exercises graduates receive their diplomas. Attendance at commencement is required. Students who are excused from attending are assessed a fee of five dollars. Diplomas are mailed to the students at the close of the post-summer session and the first semester.

**Transcripts**—A transcript of record is an official copy of a student's record which is issued upon request. Each student is entitled to one transcript free of charge. One dollar is charged for each additional transcript.

A student who wishes to transfer to another college or university should request the Registrar's office to send an official transcript to the school.

**Honorable Dismissal**—An honorable dismissal is given to a student who withdraws from the University in good standing. A statement of good standing or honorable dismissal is not made for a student who is on scholastic probation, or who has been dropped from the University because of poor scholarship, or who is financially indebted to the University.

## REGISTRATION

**Procedure**—Students register in the Men's Gymnasium according to the days and hours indicated on the Permits to Register. Students who have been accepted for admission to the University will obtain the Permits to Register by mail. Former students will obtain Permits to Register upon request by mail or in the Registrar's office. Details concerning the registration procedure are given in the Schedule of Recitations which can be obtained in the Registrar's office.

**Fee for Late Registration**—A fee of one dollar for each day will be charged for late registration with a maximum of ten dollars. The schedule of registration days is given in the University Calendar and on the Schedule of Recitations. Even though a student may receive permission to register after the regular registration period has closed, he will be required to pay the penalty for late registration.

**Student Load**—A normal student load is 15 or 16 semester hours. A student may register for more than 16 hours only under the following conditions:

- (1) A student with a high scholastic average may be given permission by the dean of the college in which he is enrolled to carry 17 hours.
- (2) A student who has carried a normal load without any failure and has made twice as many scholastic points as hours may carry 18 hours as long as he fails in none of his courses and makes twice as many points as hours.

- (3) A student who has carried 18 hours without any failures may carry 20 hours as long as he fails in none of his courses and makes two and one-half times as many points as hours.

**Change Orders or Change of Schedule**—Students may add or drop a subject by obtaining a Change Order. Students in the University College obtain Change Orders from the Dean of Men or the Dean of Women. Upperclassmen obtain Change Orders from the Dean of the College in which they are enrolled. After the student obtains the order he must take it directly to the Registrar's office. The order will not be in effect until it has been presented and accepted by the Registrar's office. A subject dropped without presenting the Change Order to the Registrar's office will be marked failure. A fee of one dollar will be charged for a Change Order after the close of the second week of the regular sessions.

**Change of Address**—If a student after registration changes his home or Athens address, he is expected to notify the Registrar in writing at once. He will be held responsible for a communication from the University offices sent to him at the last address given.

**Withdrawal**—A student may withdraw from the University with the permission of his dean. The Dean of Men or the Dean of Women will issue Withdrawal Orders for the freshmen. Upperclassmen will obtain Withdrawal Orders from the dean of the college in which they are enrolled. The withdrawal is not in effect until the order is filed in the Registrar's office. A student cannot withdraw in good standing unless all his financial obligations to the University have been met.

Withdrawal from the University without official permission will automatically result in the recording of an F grade for each subject. An honorable dismissal is given to a student who officially withdraws from the University.

## ORGANIZATION

Ohio University, as founded and conducted during the early years of its existence, was to all intents and purposes a liberal arts college, as were practically all institutions of higher learning at the time. It remained a liberal arts college throughout the nineteenth century with only gradual expansion and few changes in policy. By the turn of the century, however, a growing need for teachers called for a professional educational program. In 1902, therefore, in response to this demand of public education, the University was expanded to include a college for the training of teachers. Meanwhile, the general tendency for higher education in many fields had been definitely manifesting itself in increased enrollment and the demand for a broader curriculum. Courses in electrical engineering and in commerce, which had been introduced as early as 1890 and 1893 without perceptible effect upon the organization of the University, are notable instances of this trend.

In the years of constant growth that followed, the University at all times endeavored to keep pace with the growing need, until it became evident that the traditional division into a College of Liberal Arts and a College of Education was outgrown and no longer representative of the broader curricula which had come to be offered in the University. In the autumn of 1935 the University College was established as an aid to freshmen in making the difficult adjustment from high school to college. Further reorganization has followed in accord with the enlarged offerings until at present the University comprises the following divisions:

THE UNIVERSITY COLLEGE

THE COLLEGE OF ARTS AND SCIENCES

THE COLLEGE OF EDUCATION

THE COLLEGE OF COMMERCE

THE COLLEGE OF APPLIED SCIENCE

THE COLLEGE OF FINE ARTS

THE GRADUATE COLLEGE

PHYSICAL WELFARE

MILITARY SCIENCE AND TACTICS

EXTENSION DIVISION

SUMMER SESSIONS

## COLLEGES AND DEGREES

While various curricula are offered in different colleges of the University, there is no division into mutually exclusive compartments. University work leading to each of the various degrees is a unified and connected whole. While the requirements for a particular degree are set up and administered by an individual college, students are not only permitted, but are required to take courses that are administered by other colleges than the one in which they are registered. No college may exclude a student of another college from any course for which the necessary prerequisites are met.

Assuming that the student's high school preparation has been adequate and that he does college work of average grade or better, he should be able to complete the requirements for any of the bachelor's degrees in four years. In most cases such a degree means the completion of a minimum of 124 semester hours (a semester hour is the equivalent of one recitation a week throughout a semester) and the attainment of 124 scholastic points, varying somewhat in the different colleges. Students will, in general, meet the program of the University College, satisfy the requirement in physical welfare or military science, and complete the specific requirements of the college in which they are candidates for degrees. There is also a minimum residence requirement of two semesters, or the equivalent in summer sessions. The student must be in residence during the session in which the degree is granted.

All students in University College have as a requirement a year's course in physical welfare, or military science (optional with men), carrying credit of one hour each semester. All students who are candidates for degrees will continue such work a second year with like credit.

All students who wish to teach and are not enrolled in the College of Education must complete, in addition to the requirements of their own college, the requirements for certification set up by the State Department of Education.

Some students who have registered in one undergraduate degree college may later wish to transfer to another. Such transfer may be made only with official approval of the Executive Committee of the University and upon payment of a five dollar transfer fee. In such instances the degree requirements of the college to which transfer is made must be fully met before a degree will be conferred.

An additional year's work, that is, 30 semester hours and 30 scholastic points, will be required for the securing of a second bachelor's degree. To illustrate: If a student has earned the degree of Bachelor of Arts by securing 124 semester hours, he must secure an additional 30 semester hours and be in residence at least an additional semester to receive the degree of Bachelor of Science in Education.

## THE UNIVERSITY COLLEGE

The University College is organized primarily for students regularly matriculating as freshmen in Ohio University. It was established in September, 1935, with a view to helping the incoming student make his adjustments to college life rapidly and effectively. It offers effective instruction and guidance toward the best choice of courses in more highly specialized fields during the succeeding years of college life. The trend toward such an organization of freshmen is not new. An important feature at Ohio University is the provision for counselors whereby every student in the University College receives the personal advice and friendly counsel of a member of the faculty. This counseling program is of paramount importance to the successful achievement of the objectives of the University College.

There are two divisions of the University College, a men's division and a women's division. The men's division functions under the direction of the Dean of Men, assisted by an executive committee; the women's division functions under the direction of the Dean of Women.

The training of the student in his high school course and in the first year of the University is regarded as a unit. The objective is to insure that in this five-year period every student shall attain a minimum foundation of substantial general education. The standard now established for the high school period of four years plus the University College year includes a minimum program as follows:

- Five units (years) of English
- Three units of laboratory science
- Three units of social science
- Two units of mathematics
- Two units of foreign language

One year of college mathematics and one year of college foreign languages are regarded for this purpose as the equivalent of two units each. Students who enter the University with fewer than four units of English may satisfy the five-year requirement by passing the regular course in freshman English, provided that they pass the English efficiency test upon entering the University.

Registration in the University College takes place on the day preceding upperclass registration and is conducted by a special group of faculty members known as deputy registrars. Students enrolling in the two-year courses, however, will be registered by special deputy registrars. Students continue as members of the University College until all requirements are fulfilled. Should unfulfilled requirements, however, make it necessary to remain in University College after the first year, the student may pursue studies in the field of his choice without restriction except for the courses which meet the unfulfilled requirements. Students on scholastic probation remain in the University College until probation is removed. It is necessary for the student to complete one

full year of University College work with at least half as many scholastic points as semester hours carried before he is admitted to an undergraduate degree college.

The normal and desirable freshman program will include elections from the fields of English, social science, laboratory science, foreign language, and mathematics. The program should include courses selected from at least three of these five fields. In building his program, a freshman will register for not more than one vocational or technical subject within a given field, since the freshman year should be devoted to general training rather than to vocational pursuits. The foundation of general education laid during this year should enable the student to make a deliberate and wise choice as to his future course and to take his place naturally as a mature member of the university community. Normally the student will be able to complete his work for a degree in any one of the undergraduate degree colleges in three additional years.

**Two-Year Diploma in Education.** Freshmen taking the two-year diploma courses in education are registered in the University College under curricula determined by the College of Education.

**Elective Study.** There is also offered in the University College an opportunity for elective study for special students who expect to remain in college only one or two years, and who do not expect to complete curricula leading to degrees. This arrangement provides for such students an opportunity to choose subjects of study suited to their individual desires and needs. All course requirements are removed in the two years of elective study except those in English composition and physical welfare. Women students will also take a one-hour course in College Problems. Men students may substitute military training for physical welfare.

Admission to the two years of elective study is based upon the requirements which govern admission to the University College, including the regular college ability test. Students under twenty-one years of age must also present a written statement from parent or guardian requesting that they be admitted to elective study.

Men and women who are twenty-one or more years of age will be admitted to elective study upon the recommendation of their respective dean of the University College in consultation with the instructors in the field in which such work is desired, even though fewer than fifteen units of high school study have been completed. Such persons will be enrolled in regular classes and will receive the same instruction and be subject to the same standards as are other students. Applicants for admission under this provision must present satisfactory evidence that they are at least twenty-one years of age. Students admitted to elective study may choose any subjects they wish, provided they have satisfied the stated prerequisites.

At the beginning of any semester a student doing elective

study may transfer to a course leading to a degree. When this is done, the student must choose subjects which meet the admission and course requirements of the degree sought, including those of the University College. Students who have completed 64 semester hours of credit in elective study are required to enroll as candidates for degrees and to conform to the course requirements for such degrees, if they desire to do further work at Ohio University.

## COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences aims primarily to offer opportunities for what is commonly called a liberal education in contrast with the more professional or vocational training provided by the other colleges. It also affords opportunities for pursuit of most of the less strictly technical subjects which occupy the attention of students enrolled elsewhere in the University. It is in this way a service college for the whole of the University. Students from the other colleges are admitted to its courses on the same basis as are students registered in the College of Arts and Sciences.

As an undergraduate degree college with conscious emphasis on breadth of training, which is its primary aspect, the College of Arts and Sciences offers two degrees, the Bachelor of Arts and the Bachelor of Science. Both degrees are characterized by a considerable spread of interests. They not only permit specialization, but indeed require sufficient concentration in major and minor fields to insure some degree of mastery in a particular field.

In general, the distinction between the curricula for the two degrees in the College of Arts and Sciences lies in the fact that for the Bachelor of Arts degree greater emphasis is placed upon the old and new humanities, such as English, foreign languages and literatures, and the social sciences, whereas for the Bachelor of Science degree the chief emphasis is placed upon the natural sciences and their related fields.

Candidates for these degrees will complete a minimum of 124 semester hours and 124 scholastic points. These include the program of the University College, the requirements in physical welfare or military science, and three years of work comprising approximately 94 semester hours under the direction of the College of Arts and Sciences.

**Bachelor of Arts.** Courses leading to the degree of Bachelor of Arts shall include the following requirements:

- ✓ 1. Sophomore English literature courses 101 and 102, 6 semester hours. ✓
- ✓ 2. The equivalent of three full years of college foreign language of ✓ 6 to 8 semester hours each. This requirement may be met in part

in the University College; but in any case at least one of the years shall be taken in the University. The options and conditions for the others are as follows:

- (a) High school foreign language will satisfy this requirement on the basis of two high school units for each college year. However, no fewer than two high school units shall be so credited.
  - (b) Students who enter the University with four or more units will either continue with one year of the same language (or one of the same languages) or take two years of another foreign language; except that students who offer high school French or Spanish may satisfy the requirement with one year of Italian, and students who offer Latin may satisfy the requirement with one year of Greek.
3. A one-year course in biological science and a one-year course in physical science of 6 to 8 semester hours each. Either one or both of these requirements may be met in high school or University College, except that all candidates for this degree will take one year of science in the University.
  4. At least 6 semester hours in one of the following subjects: philosophy, psychology, college mathematics. Students may take one year of psychology or college mathematics in University College in satisfying this requirement.
  5. Twelve semester hours in social sciences not included in 4, of which 6 semester hours shall be in economics or government and 6 semester hours in history or sociology. Six hours of this requirement may be met in University College.

**Majors and Minors.** Requirements for the degree include also a group major of 36 semester hours in subjects classified in the same group, not fewer than 20 hours of which shall be in a single field; and a group minor of 18 semester hours in subjects classified in some other group, not fewer than 12 hours of which shall be in a single field. Freshman English will not be credited toward group requirements:

The courses of instruction of the University are grouped as follows:

- (A) Language, Literature, and Art.  
English, Latin, Greek, French, Spanish, Italian, German, music, painting and allied arts, archaeology, dramatic art, journalism.
- (B) Natural Sciences and Mathematics
  1. Biological sciences: biology, botany, physiology, zoology.
  2. Physical sciences: astronomy, chemistry, geography, geology, physics.
  3. Related sciences: agriculture, engineering, home economics, mathematics, industrial arts.
- (C) Social Sciences  
Commerce, economics, education, government, history, philosophy, physical welfare, psychology, sociology.

**Bachelor of Science.** The requirements for the degree of

Bachelor of Science are the same as the above with the following exceptions:

- (1) The requirements in foreign language may be met by the equivalent of two full years of any modern foreign language.
- (2) At least 36 semester hours above the freshman level shall be offered in the natural science group.

**For Prospective Lawyers, Physicians, and Dentists.** Any student of the College of Arts and Sciences who shall have completed the requirements of the freshman, sophomore, and junior years (94 semester hours and 94 scholastic points), and who shall thereafter have completed, with at least a "C" average, his first-year course in law, medicine, or dentistry (30 semester hours) in any institution of learning approved by the University, shall be entitled to receive his bachelor's degree from Ohio University.

**Curriculum for Pre-Medical Students.** The minimum requirements for admission to a medical college are the completion of 60 semester hours of collegiate work. These must include: general chemistry, qualitative or organic chemistry, physics, general biology or zoology, comparative anatomy, embryology, English, and a reading knowledge of either French or German, the latter preferred. Some medical colleges require more than the minimum and most of them recommend additional courses in the sciences.

It is rarely possible to complete the collegiate preparation in less than three years. Students are urged whenever possible to complete a four-year course leading to a degree. Before entering a professional school a student should possess a liberal culture such as is gained from a thorough acquaintance with English literature and from a knowledge of the social sciences and foreign languages. Some medical colleges require the Bachelor of Arts degree for admission.

**Curriculum for Medical Technology.** A course in medical technology trains students in the laboratory methods used in hospitals, physicians' offices, public health bureaus, and other laboratories concerned with medical diagnosis and investigation.

Technologists who wish to be recognized by the American Society of Clinical Pathologists must have had university training in appropriate subjects as a basis for practical hospital training. Students who complete satisfactorily the curriculum receive the degree of Bachelor of Science in Medical Technology. Three years are devoted entirely to university instruction. During the fourth year the student receives practical hospital training in addition to university instruction.

**Pre-Nursing Curriculum.** The Pre-Nursing Curriculum is arranged for students who wish to obtain a college degree and also become registered nurses. Ohio University has an arrangement with Grant Hospital Training School for Nurses, Columbus, Ohio,

which enables a student to complete in five years and four months the requirements for a college degree and for the title of Registered Nurse. These requirements can be met by completing a three-year curriculum at Ohio University and two years and four months of training at Grant Hospital School for Nurses.

## THE COLLEGE OF EDUCATION

The college of Education is devoted to the education of men and women who intend to enter the field of teaching and school administration. Its aim is a fully rounded preparation for the profession of teaching, and its curricula are intended to prepare students for teaching in city and rural elementary schools and in high schools; for the positions of school administrators, supervisors, and supervising critics; and for the teaching of special subjects. Its program of academic and professional study and student teaching is built about a fundamental belief in standards of the highest type, designed to prepare teachers who will have adequate knowledge of their special fields, who will know professional theory and how to apply it, and who will have attained a degree of skill which will enable them to go into the profession under circumstances favorable to immediate success even as beginning teachers.

**Bachelor of Science in Education.** The degree of Bachelor of Science in Education is granted for curricula covering a course of four years with specialization fields in any of the academic subjects or in the special field of art, industrial arts, home economics, commerce, or music. The fields cover the subjects usually taught in the high school and in the elementary schools if the work is departmentalized.

Candidates for the degree will complete a minimum of 124 semester hours and 124 scholastic points. These include the program of the University College, the requirements in physical welfare or military science, (military science, however, cannot be substituted for State Department of Education major or minor requirements in physical education), and three years of work under the direction of the College of Education, comprising approximately 94 semester hours. The general requirements in this college include 20 semester hours in education; 6 semester hours in psychology; 6 semester hours in English literature above the freshman level; 6 to 9 semester hours in science and mathematics; 12 semester hours in social sciences.

Candidates will also complete certain specialization requirements for the degree, known as majors and minors. For academic subjects, the number required for a major varies from 24 to 36 semester hours, and for the special subjects, from about 40 to 60. At least one minor is required with a minimum of 15 semester hours. For specialization in junior high school teaching a major consisting of a minimum of 24 semester hours in one academic subject and two minors are required. The requirements of the

State Department of Education must be met in the minors. There are also curricula leading to the bachelor's degree in education for majors in kindergarten-primary, intermediate grades, and special education.

In addition to courses leading to the degree, two-year diploma courses are offered for those who desire to become kindergarten-primary teachers, intermediate grade teachers, and teachers in special education.

General and specialization requirements for a degree or for a diploma are issued in outline form from the office of the dean of the college.

#### STUDENT TEACHING AND OBSERVATION AND PARTICIPATION

The College of Education requires 3 semester hours of observation and participation and from 4 to 6 semester hours of student teaching in the requirements outlined for the degree of Bachelor of Science in Education and for a two-year diploma. Student teaching credit may be transferred from accredited colleges, but will not fully satisfy the requirements. In no case shall less than 2 semester hours of student teaching in the training schools of the University satisfy the requirement. Superintendents, supervisors, and principals may satisfy this requirement by supervising in the training schools in conjunction with the regular critic teacher. Student teaching reservations should be made before the opening of the semester or summer session. Reservation blanks can be secured from the Director of Teacher Training, Ohio University.

#### PREREQUISITES

##### General—

1. At least "C" or one point scholastic average.
2. At least "C" average in English Composition or "C" grade in the last English Composition course.
3. Demonstrated ability to write and speak English correctly and effectively.

##### Elementary—

Student teaching in the elementary grades has the following additional prerequisites: a student must have completed 32 semester hours with an average of "C", must make a score of 80 on the Ayers Scale for Handwriting, and must have completed the prerequisite courses.

##### High School—

Student teaching in the high school has the three general prerequisites and the following: A student must have completed at least 90 semester hours of the course which shall include not fewer

than 16 semester hours with "C" average in the subject he wishes to teach, and the following courses in education:

Principles of Secondary Education.....	3 hours
Special Methods (in subject he wishes to teach)....	2 hours
*Educational Measurements.....	2 hours
Educational Psychology.....	3 hours
High School Observation and Participation.....	3 hours
School or High School Administration.....	3 hours

\*This is not required for students whose major is Art, Commerce, Home Economics, Industrial Education, Mathematics, Music, or Physical Welfare.

#### TRAINING SCHOOLS

**Elementary.** Student Teaching is done in the kindergarten and in the elementary grades of the Rufus Putnam School maintained by the University. The enrollment is not selective and thus represents for the student a typical school. The equipment compares favorably with that in the best city schools. A unit of the Rufus Putnam School is equipped for practice in Special Education. A group of from twelve to sixteen children is carefully selected from the schools of Athens. Opportunity is afforded for individual diagnosis of problem children. Facilities for elementary teaching are also available in The Plains Elementary School located at The Plains, a community four miles from Athens, and in the Mechanicsburg School, located one mile from Athens. A supervising critic is in charge of each room of the elementary schools.

**Junior High School.** Students who are preparing for teaching in the upper grades or junior high school do their student teaching in the Athens Junior High School which has an enrollment of over 400 students, or in The Plains High School.

**Senior High School.** Students who are preparing for high school teaching do their student teaching in the Athens High School or in The Plains High School. The Athens High School has an enrollment of about 350 students and is located a short distance from the campus. The Plains High School is located about four miles from Athens. The arrangements with the Athens High School and The Plains High School provide unusual facilities for all phases of teaching.

Transportation to the Mechanicsburg and The Plains Schools is furnished without cost to the students by the University.

#### STATE DEPARTMENT OF EDUCATION REQUIREMENTS FOR CERTIFICATION TO TEACH IN OHIO

The following requirements in teacher preparation are minimum standards prescribed by the State Department of Education. They are not as ex-

tensive as those of the College of Education of Ohio University. They are stated here for the information of faculty advisers and students.

### Requirements in the Field of Education

Subjects	H. S.	Elem.	Special
Administration, Organization, Management (6 observations)---	2 or 3	2 or 3	2 or 3
Educational Psychology ----- (Prerequisite: a course in General Psychology)	2 or 3	2 or 3	2 or 3
Methods (8 observations) -----	2	6	2 to 4
Principles of Teaching (6 observations)-----	2 or 3	2 or 3	2 or 3
Student Teaching (number of hours determined by the attainment and proficiency of the student)-----	3 to 5	3 to 5	3 to 5
Art-----		2	
Physical Education-----		2	
Public School Music-----		3	
Electives:			
Educational Sociology -----	2 or 3		
History of Education-----	2 or 3		
Introduction to Teaching -----	2 or 3		
School Law -----	2 or 3		
Tests and Measurements-----	2 or 3		
Any other educational course-----	2 or 3		
Total professional requirements-----	17 to 19	24 to 26	17 to 19

### Requirements for Teaching Majors and Minors in Academic Subjects

TEACHING FIELDS	TEACHING MAJOR 18 SEM. HRS.	TEACHING MINOR 12 SEM. HRS.	QUALIFIES TO TEACH*
English  3 units h. s.	Required 12 sem. hrs.	Required 6 sem. hrs.	Comp. & Rhetoric
	Eng. Comp. -----6	Eng. Comp. -----3	American Lit.
	Eng. & Am. Poetry---3	Eng. or Am. Prose or	English Lit.
	Eng. & Am. Prose---3	Poetry -----3	Classics
History  2 units h. s.	Elective 6 sem. hrs. in literature, public speaking, any other English or in required subjects.	Elective 6 sem. hrs. same as major elective.	Lib. sci. and speech, if included in major or minor.
	Required 12 sem. hrs.	Required 6 sem. hrs.	
	World History -----3	World History -----3	History
	Am. History -----3	Am. History -----3	Political Science
Foreign Language French German Greek Latin Spanish  2 units h. s.	Government or Pol. Science -----3		Civics
	Modern Trends -----3		Government
	Elective 6 sem. hrs. in any other branch of secular history or in required subjects.	Elective 6 sem. hrs. same as major elective.	Social Civics
	18 semester hours in one language in usual sequence.	12 semester hours in one language in usual sequence.	Subject in which preparation has been made.
Mathematics  2 units h. s.	Required 9 sem. hrs.	Required 6 sem. hrs.	Arithmetic
	Col. Alg. -----3	Col. Alg. -----3	Com. Arithmetic
	Col. Geom. -----3	Col. Geom. -----3	Algebra
	Trig. -----3		Geometry
	Elective 9 sem. hrs. in any higher math., astronomy, com. arith., statistics, or in required subjects.	Elective 6 sem. hrs. same as major elective.	

\*Students who fulfill the requirements may also teach in the grades if the work is departmentalized.

TEACHING FIELDS	TEACHING MAJOR 18 SEM. HRS.	TEACHING MINOR 12 SEM. HRS.	QUALIFIES TO TEACH*
Science	Required 9 sem. hrs.	Required 6 sem. hrs. in	Biology
Biological Science	Zoology -----3	zoology, botany, gen-	Zoology
	Botany -----3	eral biology or any	Botany
	or Gen. Biology -----6	combination of the	Physiology
	Physiology,	three.	Hygiene
	Hygiene or Agri. ----3		General Science
1 unit h. s.	Elective 9 sem. hrs. in	Elective 6 sem. hrs.	Agriculture, if included
	entomology, bacteriol-	same as major elective.	in college work.
	ogy, or in required sub-		
	jects.		
Earth Science	Required 12 sem. hrs.	Required 6 sem. hrs.	Geography
	Geology -----3 to 9	Geology -----2	Com. Geography
	Geography -----3 to 9	Geography -----3	General Science
1 unit h. s.	Elective 6 sem. hrs. or	Elective 6 sem. hrs.	Geology
	in required subjects.	same as major elective.	
Physical Science	Required 12 sem. hrs.	Required 6 sem. hrs.	Physics
	Physics -----6	Physics -----3	Chemistry
	Chemistry -----6	Chemistry -----3	General Science
1 unit h. s.	Elective 6 sem. hrs. in	Elective 6 sem. hrs.	
	physics, related sub-	same as major elective.	
	jects, physical science,		
	or any branch of chem-		
	istry or in required		
	subjects.		
Social Science	Required 9 sem. hrs.	Required 6 sem. hrs.	Economics
	Economics -----3	Economics -----3	Sociology
	Sociology -----3	Sociology -----2	Guidance
	Ethics, philosophy, log-		Civics, econ. geog., ind.
	ic; any one or any		geog., com. geog., if
	combination -----3		included in college
	Elective 9 sem. hrs. in	Elective 6 sem. hrs.	work.
	Econ. Geog.	same as major elective.	
1 unit of hist.	Social Civics		
or geog. h. s.	Indus. History		
	Commercial Geog.		
	Industrial Geog. or in		
	required subjects.		

Note: Methods courses in any of these subjects may be counted in computing majors and minors.

\*Students who fulfill the requirements may also teach in the grades if the work is departmentalized.

### Requirements for Teaching Majors and Minors in Special Subjects

The major requirements involve completion of a college major of not less than 40 semester hours in the field (music, 60 semester hours).

The minor requirements are as follows:

Home Economics—Including foods, clothing, home making, and methods-----18 sem. hrs.

Commercial Subjects—Including bookkeeping (9 hours), stenography (6 hours), typing (3 hours), methods of teaching bookkeeping, stenography, and type-writing (2 hours) -----20 sem. hrs.

**Physical Education**—Including the principles, organization, and administration of health and physical education (4 hours), theory and practice of physical education including activities other than athletics such as games of low organization, stunts, apparatus, tumbling, swimming, elementary school activities, dancing, etc. (4 hours), theory and practice of physical education including athletic coaching in intramural and inter-scholastic athletics in (men) football, soccer, speedball, basketball, baseball, tennis, track, (women) soccer, volleyball, hockey, basketball, baseball, tennis, track (4 hours), health education including the teaching of health and school health problems (4 hours) -----16 sem. hrs.

**Manual Arts**—Including woodworking, metal working, general shop and methods--16 sem. hrs.

**Fine Arts**—Freehand drawing (6 hours), painting (3 hours), design (3 hours), art appreciation (2 hours), methods of teaching art (3 hours)-----17 sem. hrs.

**Music**—Including sight singing, ear training and elementary theory (4 hours), history and appreciation (4 hours), special methods including observation in music (6 hours), ensemble (glee club, chorus, orchestra, band), and applied music (4 hours) -----18 sem. hrs.

If the applicant has more than 16 units of high school credit, an excess of credit in any subject may be used toward a minor in that field at the rate of 3 semester hours per unit of such excess. Conversely, 3 semester hours of collegiate credit in any subject may be offered in lieu of each unit of the high school prerequisite in that subject.

## THE COLLEGE OF COMMERCE

The College of Commerce offers a professional course in commerce or business which leads to the degree of Bachelor of Science in Commerce. The departments and fields which may be emphasized include accounting, advertising, banking, finance, management, business law, and economics. The College comprises also the Department of Secretarial Studies and the School of Journalism, in which proper specialization leads to the degree of Bachelor of Science in Secretarial Studies or Bachelor of Science in Journalism.

The College of Commerce also aims to serve students in other colleges of the University; they are admitted to its courses on the same basis as are students registered in this college.

All candidates for degrees in this college will complete a minimum of 124 semester hours and 124 scholastic points. These include the program of the University College, the requirements in physical welfare or military science, and three years of work under the direction of the College of Commerce, comprising approximately 94 semester hours.

**Bachelor of Science in Commerce.** Work leading to the degree of Bachelor of Science in Commerce is divided almost equally between required and elective courses. The required courses, which comprise a minimum of 46 semester hours, include the following:

1. Accounting and statistics, 10 semester hours. (Accounting may be taken in University College.)
2. Marketing and advertising, 6 semester hours.
3. Economics and finance, 12 semester hours.
4. Business Law, Government and Business, 8 semester hours.
5. English, Business Letter Writing, 5 or 6 semester hours.
6. Business and Professional Ethics, 2 semester hours.

Among the elective courses not fewer than 15 semester hours will be in the College of Commerce, and a like number in other de-

partments of the University. All elective courses are subject to the approval of the Dean of the College, as a balance is to be maintained between commerce and other courses. The scope and extent of the electives, however, enable students to give almost any emphasis they wish to their college work.

**Bachelor of Science in Secretarial Studies.** The curriculum leading to this degree includes as specific requirements courses which are fundamental to business as well as courses which are essential in preparing students for the various types of secretarial positions: business, private, or organization. The major emphasis in this curriculum leaves approximately 24 semester hours of electives, which should be divided somewhat equally between courses in commerce and in other subjects. Specific requirements include the following:

1. Secretarial studies, 31 semester hours, of which 6 hours may be taken in the University College.
2. Accounting, 6 semester hours.
3. Economics and finance, 12 semester hours.
4. Marketing and advertising, 6 semester hours.
5. Business Law, 6 semester hours.
6. English, Business Letter Writing, 5 or 6 semester hours.
7. Psychology, 5 semester hours.

**Bachelor of Science in Journalism.** The curriculum leading to the degree of Bachelor of Science in Journalism includes not only classroom courses, but also actual experience on the staff of a daily newspaper under the direction of news and business executives. The thirty-two classroom and laboratory courses together with allied printing and advertising courses offer an opportunity to meet the needs of those planning for a writing career, those interested in business management of publications, and those desiring to combine the two interests. Combined with the student's selection from these courses is a broad cultural background in which emphasis is placed upon literature, economics and finance, government, history, art, philosophy, psychology, and sociology. Development of specific fields of interest is encouraged. Special courses are offered for those who wish to write for magazines and trade journals and for those who plan to supervise high school publications or teach journalism in high schools.

Since the degree of Bachelor of Science in Journalism is offered both to those who prepare for the profession of writing and those who plan to enter the field of business management of publications, the basic minimum is limited to:

1. Economics and commerce, 9 semester hours.
2. Psychology and philosophy, 6 semester hours.
3. Social sciences, 6 semester hours.
4. Printing, 2 semester hours.
5. Art, 2 semester hours.
6. Journalism (writing), 32 semester hours; (business), 26 semester hours.

## THE COLLEGE OF APPLIED SCIENCE

The College of Applied Science comprises the Departments of Civil Engineering, Electrical Engineering, Industrial Arts, and Agriculture, and the School of Home Economics. Specialized degrees offered are the Bachelor of Science in Home Economics, Bachelor of Science in Civil Engineering, and Bachelor of Science in Electrical Engineering. The Departments of Agriculture and Industrial Arts offer courses which may be elected or chosen as majors or minors by students seeking degrees in other colleges. Courses offered in the College of Applied Science are open to students in the other colleges.

Candidates for the degrees in the College of Applied Science will complete the program of the University College, the requirements of physical welfare, or military science, and three years of work under the direction of this college. The total number of semester hours and scholastic points required varies from 124 to 140, depending upon the previous preparation of the student and the curriculum pursued.

**Bachelor of Science in Civil Engineering.** The curriculum set up for this degree is designed to give the student the fundamental basic training necessary to a broad understanding of the field and to help him to decide the particular branch of training he wishes to follow. Considerable time is devoted to laboratory and field work. Specialized requirements are:

1. Mathematics, 18 semester hours (10 hours may be taken in the University College).
2. Physics, 8 semester hours.
3. Civil Engineering, 74 semester hours which shall include:  
Mechanical Drawing (4 hours may be taken in the University College) and Graphic Statics, 12 semester hours.  
Applied mechanics and strength of materials, 7 semester hours.  
Hydraulics and sanitary engineering, 7 semester hours.  
Highway engineering, 5 semester hours.  
Concrete engineering, 8 semester hours.  
Structural engineering, 12 semester hours.  
Surveying, 7 semester hours.  
Contracts and Specifications, 2 semester hours.
4. Additional specified courses, 22 semester hours.

**Bachelor of Science in Electrical Engineering.** It is the aim of the Department of Electrical Engineering to provide the background of general information and basic knowledge of principles which will enable the student to analyze situations and to think intelligently and effectively in the field. The curriculum to be pursued has been built around the belief that these are the most essential elements toward practical advancement in electrical engineering. The specialized requirements of this curriculum include:

1. English: Public Speaking or Greek Words in English, 2 semester hours.
2. College of Commerce: Economics, 6 semester hours and Business Law, 3 or 6 semester hours.

3. Mathematics, 22 to 24 semester hours (8 or 10 may be taken in the University College).
4. \*Industrial Arts: Shop, 4 semester hours as specified.
5. Chemistry, 8 semester hours (may be taken in the University College).
6. Civil Engineering: Descriptive Geometry, 5 semester hours; \*Mechanical Drawing, 4 semester hours; Contracts and Specifications, 2 semester hours; Plane Surveying, 3 semester hours.
7. Physics, 8 semester hours.
8. Electrical Engineering, 74 semester hours which shall include:  
     Engineering Physics, 13 semester hours.  
     Engineering English, 2 semester hours.  
     Theoretical and applied heat and light, 8 semester hours.  
     Theoretical and applied electrical engineering, 40 semester hours.

**Bachelor of Science in Home Economics.** The home economics curriculum attempts to integrate art and science for the improvement of home and family life and to provide economic independence in occupations dealing with problems of the home.

1. To offer both men and women courses of study for appreciation and understanding of the activities and relationships of family life.
2. To develop home-making as an intellectual and well-ordered profession.
3. To afford training in some of the vocations related to home activities.
4. To provide training in home economics for those who wish to teach.

The specialized curricula, leading to a degree in the School of Home Economics, vary to some extent according to the major emphasis. They include the following:

1. From 11 to 21 semester hours of chemistry, biology, physiology, and bacteriology, of which 14 may be taken in the University College.
2. From 9 to 22 semester hours of foods and dietetics.
3. From 9 to 22 semester hours of clothing and textiles, or the equivalent in total number of hours in one of these fields.
4. From 6 to 17 semester hours of home planning, household equipment, home management, family relationships, and child development.
5. From 3 to 10 semester hours each in sociology, economics (may be taken in the University College); and art.

## THE COLLEGE OF FINE ARTS

The College of Fine Arts comprises the School of Music, the School of Painting and Allied Arts, and the School of Dramatic Art. The degrees offered are the Bachelor of Fine Arts in Music, in Painting and Allied Arts, and in Dramatic Art. The curricula of the three schools in this college are designed to provide for a broad cultural education in the fine arts and for specialized interests within the different schools.

\*One may be taken in the University College.

Students enrolled in other colleges may elect courses in this college or may complete the requirements for a major or minor in music, painting or allied arts, or in dramatic art.

Candidates for the degree in the College of Fine Arts will complete a minimum of 124 semester hours and 124 scholastic points. These include the program of the University College, physical welfare or military training, and three years of work in the College of Fine Arts, comprising approximately 94 semester hours.

**Bachelor of Fine Arts in Music.** In the school of Music there are provisions for individual study in all branches of vocal and instrumental music with specific courses in basic principles; and opportunities for participation in group music, such as the University Choir, the glee clubs, the quartet, band, and orchestra. The requirements for the degree include:

1. English, 12 semester hours.
2. Foreign language, same requirements as for the degree of Bachelor of Arts.
3. Philosophy, psychology, or mathematics, same requirements as in the College of Arts and Sciences.
4. Social sciences, 6 semester hours in one subject.
5. Major requirements, a minimum of 43 semester hours.
6. Minor requirements, 16 semester hours in painting and allied arts, 16 semester hours in dramatic art.

**Bachelor of Fine Arts in Painting and Allied Arts.** The School of Painting and Allied Arts provides curricula for those interested in history, design, and painting. The general requirements for the degree are:

1. English, 12 semester hours.
2. Philosophy, psychology, or mathematics, same requirements as in the College of Arts and Sciences.
3. Social sciences, 6 semester hours in one subject.
4. Major requirements, a minimum of 32 semester hours in the field of specialization.
5. Minor requirements, 16 semester hours in music, 16 semester hours in dramatic art.
6. Requirements in special fields in other colleges, 2 to 5 semester hours.

**Bachelor of Fine Arts in Dramatic Art.** In the School of Dramatic Art the emphasis may be placed upon the principles of public speaking, the technique of stagecraft and dramatic interpretation, or the student may seek training in both fields. Student expression is provided by a program of major plays, of minor plays produced under student direction in Playshop, and in participation in the speech activities of the department and the University. The general requirements for the degree are:

1. English, a minimum of 18 semester hours.
2. Foreign language, same requirements as for the degree of Bachelor of Arts.
3. Philosophy or psychology, 6 semester hours.

4. Social sciences, 6 semester hours in history.
5. Major requirements, a minimum of 32 semester hours.
6. Minor requirements, 16 semester hours in music, 16 semester hours in painting and allied arts.

## THE GRADUATE COLLEGE

**Admission.** The privileges of the Graduate College are open to students who hold a bachelor's degree from an accredited college or university. Application for admission should be made on a blank obtainable from the office of the Registrar and must be supported by official transcripts of the applicant's previous studies. These documents should be filed with the Registrar at least a month before the opening of the term in which the applicant plans to begin his studies. Admission to the Graduate College does not of itself constitute admission to candidacy for a degree.

**Fees.** The fees for graduate students are the same as those for undergraduates. See page 21 for a full statement of fees.

**Degrees Offered.** The college offers graduate work in academic and professional fields and confers the degrees of Master of Arts, Master of Science, Master of Education, and Master of Fine Arts. When a master's degree is taken in a professional field, designation will be made, for example, as follows: Master of Science in Commerce. In addition to the curricula offered in the academic and professional fields, the University offers the degree of Master of Arts in Supervision and Guidance of Student Life. This course is designed for Advisers of Girls and Deans of Women. Applicants are required to have completed at least 18 semester hours in the field of the social sciences. The number of candidates will be restricted to five.

**Residence.** An adequately prepared student will be able to complete the work for the master's degree in one full year, or its equivalent, after securing the bachelor's degree. Two semesters or four summer sessions of graduate work, at least three-fourths of which shall be done at Ohio University, are required as a minimum for the master's degree. Transfer students are required to have a minimum residence of one full semester and one full summer session or the equivalent, provided that the other requirements for the degree at Ohio University are satisfied.

The maximum time limit allowed between date of admission to candidacy and the date when graduate credit for the degree will be accepted is five years.

**Credit.** At least thirty-two semester hours of credit are required for the master's degree.

Credit shall not be allowed for a graduate course unless all the work of the course, including the final examination, shall have been completed and the final grade reported to the office of the Registrar within one year after the official ending of the course.

Students who hold graduate credit in another institution which confers a recognized master's degree may, if the work so completed would be acceptable for credit toward a master's degree at Ohio University, transfer a maximum of one semester's credit toward partial fulfillment of the degree requirements.

**Candidacy for a Degree.** In order to be admitted to candidacy for the master's degree, the applicant must fulfill the following requirements: (1) He shall demonstrate his ability and fitness to pursue graduate work in his chosen field. This may be done by presenting a satisfactory undergraduate record in the subjects which he wishes to pursue for graduate credit, or by pursuing a part of the program designed for graduate study with satisfactory grades in the courses taken. (2) The course of study leading to the degree desired must be outlined, submitted to the Dean of the Graduate College, and approved by the Graduate Council. (3) Application for admission to candidacy must be made at least four months before the degree is to be awarded. (4) The thesis subject must be approved by the Graduate Council at least four months before the degree is to be awarded.

**Courses Open for Graduate Credit.** Credit toward a graduate degree will be given only for the completion of courses designed for graduate students (numbered 301-399) and courses designed for advanced undergraduates and graduates (numbered 201-299).

**Special Students.** Those students who are qualified to enter the Graduate College and who take courses without applying for admission to candidacy for a degree will be classified as "special students in the Graduate College."

In certain fields opportunities exist at Ohio University for graduate work beyond the master's degree, but no higher degrees are offered. Students desiring such work, in anticipation of securing the doctor's degree in another institution, should consult the Dean of the Graduate College.

**Graduate Teaching Fellowships.** Ohio University offers each year a number of teaching fellowships which are open to exceptionally qualified students in the Graduate College. Prospective students and resident students who are interested in making application for such fellowships should obtain blanks from the Dean of the Graduate College. Fellowships will usually be awarded early in the second semester.

## PHYSICAL WELFARE

The Department of Physical Welfare is organized in two coordinate divisions, one for men and one for women. The whole program in physical welfare has been developed with the view of providing health protection and physical activity for the entire student body. The department maintains two gymnasiums and offers facilities, equipment, and guidance for physical expression in sports and hobby classes, rhythemics, swimming, and intramural

and intercollegiate athletics. All students registering in the University are given health and physical examinations.

The required two-year program of physical activities for men students who do not elect military science and tactics includes attendance in a class in health problems one period a week during the freshman year and participation in at least four sports. The required two-year program for women is on an elective basis; the activities offered are grouped under sports, rhythmic, and swimming. Men and women students who for any reason are unable to participate in the regular activity classes are given individual instruction in special classes. Students reporting for the required courses wear the uniform prescribed by the division.

A recreational hobby program designed to meet the interests and needs of students, whether proficient or inexperienced in sports, is offered by the department. Instruction is given regularly to voluntary groups and classes in the activities desired.

Students specializing in the Department of Physical Welfare will complete for their professional training approximately 40 semester hours of work. They may apply for the degree of Bachelor of Science, the degree of Bachelor of Arts, or the degree of Bachelor of Science in Education by fulfilling the requirements of the college offering the degree.

**Health Service.** The University maintains an infirmary with a staff of two nurses and a part-time physician. A record of the physical examination required of each student is kept on file in the offices of the gymnasium and the infirmary. Periodic examinations are given in individual cases when necessary. All cases of illness are reported to the infirmary. When the services of a physician are advised, the University physician will be called when no preference has been expressed. In all cases the physician's fees shall be paid by the patient. The charge for hospital care shall be \$1.50 a day for students, \$3.50 a day for members of the faculty. A student may be removed to the infirmary upon the recommendation of the nurse whenever such precaution seems necessary to safeguard the health of the entire group; all others, upon the recommendation of the physician. In cases of a contagious disease, there shall be isolation with a special nurse, the expense of the nurse to be borne by the patient.

### MILITARY SCIENCE AND TACTICS

The Reserve Officers' Training Corps was established under the National Defense Act of June 4, 1920. The Board of Trustees of Ohio University in 1935 entered into an agreement with the federal government for the establishment of a voluntary ROTC unit. Under this agreement the University maintains an elective course of military training for men students who are physically qualified. A student has the choice between two years of military training and the required first and second year courses in the De-

partment of Physical Welfare. Those who complete the first two years of military training and two additional years of five hours each semester are eligible for a commission in the Officers' Reserve Corps of the United States Army. The first two years carry one hour of credit each semester, and the last two, three hours of credit each semester.

Uniforms and training equipment are furnished by the federal government without cost to the student. Students in the advanced course receive, in addition, commutation of rations (money allowance in lieu of rations), at a rate fixed by the War Department, not exceeding the cost of the garrison ration for the soldier in the Army.

### EXTENSION DIVISION

Extension work is in the form of group teaching and correspondence study. In the former, any community in which a group of persons agrees upon a course which it desires to study will be supplied with an instructor from the University faculty, who will meet the class once a week. The size of the group necessary to secure an instructor will depend upon the distance of the community from the campus. The aim of the Division is to give work equivalent to that done in the regular college classes. Persons who are employed are limited to 6 hours a semester.

The purpose of correspondence study is to extend the privilege of University training even more widely. The courses offered cover a wide variety of subjects in twenty-four departments, and are taught by members of the regular faculty. They should appeal to teachers, business men and women, ministers, social workers, and others who wish to engage in systematic study during their spare time. Qualified students are accepted any time. Persons over twenty-one years of age are admitted upon condition that they show ability to carry the work.

In group extension and correspondence study, a student may earn as much as 40 semester hours to apply toward the requirements for a degree, or 18 semester hours in like manner toward a two-year diploma.

In 1931, Ohio University was admitted to membership in the National University Extension Association. This association is made up of about fifty of the recognized colleges and universities throughout the country that maintain departments of university extension. The various universities and colleges are admitted after thorough inspection of the extension work. Students of Ohio University are thus assured that all work satisfactorily done in extension classes or correspondence study will be properly accredited in these schools.

Persons interested in any of the work of the Extension Division should write to the director for a special bulletin or other information.

## THE SESSIONS

## THE SEMESTER SESSIONS

The regular sessions of the University comprise two semesters of approximately eighteen weeks each of residence work. In addition evening and Saturday morning classes are held for those in or near Athens who can not attend the regular day classes. Evening and Saturday classes are listed in the regular schedule of recitations.

## THE SUMMER SESSIONS

Additional educational opportunities are provided in the summer sessions for students desiring to lessen the time for securing a degree, for those desiring to supplement their degree requirements with additional courses, for those desiring to make up deficiencies, and for those who are able to attend only during the summer period.

The regular summer session lasts for eight weeks, during which the use of a six-day-a-week schedule enables the student to complete the equivalent of half a regular semester's work. In quality the offerings in the summer session are equally as good as in the regular session. The range of subjects offered depends upon the demand, but it is sufficiently broad to satisfy the needs of most students.

In continuation of the regular summer session, a post-session of three weeks' duration is provided, depending upon the demonstrated need, to enable students to complete additional work in the courses offered.

## COURSES OF INSTRUCTION

Numbers 1 - 99 designate University College courses.

Numbers 100 - 199 designate undergraduate courses.

Numbers 200 - 299 designate advanced undergraduate and graduate courses.

Numbers 300 - 399 designate graduate courses.

Odd numbers designate first semester courses or courses offered in both semesters. Even numbers designate second semester courses.

Credit is indicated in semester hours. A semester hour is the equivalent of one recitation a week throughout a semester.

### ACCOUNTING

**75-76. Elementary Accounting.** The fundamental principles of accounting theory and practice. Credit, three hours each semester. Fenzel, Beckert, Ray, Otis.

**81. Accounting Survey.** Open only to non-commerce students in order that they may obtain a knowledge of general principles of accounting in a minimum of time. Credit, two hours. Beckert.

**101-102. Secretarial Accounting.** The fundamental principles of accounting with particular emphasis on their application in the accounts of institutions, societies, individuals, and professional men. Not open to students who have had course 76. Credit, three hours each semester. Sponseller.

**125. Intermediate Accounting.** The preparation and analysis of balance sheet and income statements, principles of actuarial science, accounting for corporate net worth, and asset valuation. Prerequisite, course 76 or 102. Credit, three hours. Fenzel, Beckert, Otis.

**156. Accounting Systems.** Principles and problems of system designing and analyses of systems for specialized enterprises. Prerequisite, course 125. Credit, three hours. Otis.

**161. Teaching of Bookkeeping.** Prerequisite, course 125. Credit, two hours. Beckert.

**175. Cost Accounting.** Manufacturing cost determination under the job-order and process systems. Prerequisite, course 125. Credit, three hours. Ray.

**195. Advanced Principles of Accounting.** Actuarial science as related to accounting, principles of current and fixed asset valuation, special phases of net worth accounting, consignments, installment sales, and special statement analyses. Prerequisite, course 125. Credit, three hours. Ray, Otis.

**206. Advanced Problems of Accounting.** Problems peculiar to partnerships, receiverships, and fiduciaries; accounting for branch houses, ventures,

governmental units, and brokers; consolidated statements; and foreign exchange as related to accounting. Prerequisite, course 195. Credit, three hours. Ray, Otis.

**224. Standard Costs and Budgets.** The establishment of cost standards; preparation of budgets; and analysis of cost variances. Prerequisite, course 175. Credit, three hours. Ray.

**243. Income Tax.** A study of the current Federal Revenue Act and its application to hypothetical cases. Returns are prepared for individuals, partnerships, and corporations. Prerequisite, course 125. Credit, three hours. Ray.

**255-256. Auditing.** Purposes of audits and examinations, and principles and problems of procedure supplemented by analyses of cases and audit working papers. Prerequisite, course 206. Credit, three hours each semester. Otis.

**278. C. P. A. Problems.** Analysis, interpretation and solution of problems selected from examinations given by various state boards. Prerequisite, course 256. Credit, three hours. Otis.

**281. Research in Accounting.** Prerequisite, courses 175, 195, and permission. Credit, two to four hours each semester. The staff.

**391. Seminar in Accounting.** Prerequisite, fifteen hours in accounting and permission. Credit, two to five hours each semester. The staff.

**395. Thesis.** Credit, four to eight hours. The staff.

## ADVERTISING

**155. Advertising Principles.** The fundamentals of advertising as developed in modern procedure. Prerequisite, marketing 155 or permission. Credit, three hours. Krauskopf.

**176. Advertising Problems.** A logical sequel to Advertising Principles. It emphasizes administrative problems and the coordination of advertising with other marketing activities. Prerequisite, course 155. Credit, two hours. Krauskopf.

**186. Retail Advertising.** The principles of advertising as related to the needs of retailers. Prerequisite, course 155. Credit, three hours. Krauskopf.

**211. Direct Mail Advertising.** An examination of direct mail materials other than the letter from the campaign point of view. Special emphasis is placed on booklets. Prerequisite, course 155 and economics 102. Credit, two hours. Krauskopf.

**232. Copy Writing.** The elementary essentials of copy developed by the study of current theory and analysis of tested examples. Considerable constructive work will be required. Prerequisite, course 155 and economics 102. Credit, two hours. Krauskopf.

**281. Research in Advertising.** Prerequisite, eighteen hours in commerce including five hours in advertising and permission. Credit, two to four hours each semester. The staff.

**391. Seminar in Advertising.** Prerequisite, eighteen hours in commerce including five hours in advertising and permission. Credit, two to five hours each semester. The staff.

**395. Thesis.** Credit, four to eight hours. The staff.

## AGRICULTURE

**101. General Agriculture.** Planned to meet the needs of those preparing to teach agriculture and for those interested in the practical applications of the problems of general agriculture. Laboratory fee, \$3.00. Credit, three hours. Wiggin.

**102. Vegetable Gardening.** Classification, description, use, culture, grading, storing and marketing of vegetable crops. Laboratory fee, \$3.00. Credit, three hours. Wiggin.

**103. Fruit Growing.** A study of the selection of an orchard location, propagation, planting, fruit-setting, nutrition, thinning, disease and insect control, harvesting, grading, judging, storing, and marketing of apples. Laboratory fee, \$3.00. Credit, three hours. Wiggin.

**104. Small Fruits.** A study of fruits commonly grown in Ohio. Laboratory fee, \$3.00. Credit, three hours. Wiggin.

**105-106. Forestry.** The course acquaints the student with ways and means of identification and classification of trees and shrubs. The course includes a study of vernalization, periods of blooming and seed germination. Laboratory fee, \$2.00 each semester. Credit, two hours each semester. Copeland.

**109. Ornamental Horticulture.** The principles of landscape gardening as applied to home grounds and civic improvement, and the culture of ornamental flowers and shrubs. Laboratory fee, \$3.00. Credit, three hours. Wiggin.

**111. Rural Economics.** A study of theories relating to farm problems of wages, rent, labor, land values, farm management, and marketing. Credit, three hours. Copeland.

**115. Soils and Fertilizers.** A study of the origin, types, physical properties, and distribution of soils, their relation to crop production, stable manure, green manure, and fertilizers as used in the maintenance of soil fertility. Laboratory fee, \$3.00. Prerequisite, a course in general chemistry. Credit, three hours. Wiggin.

**116. Field Crops.** A general course in the principles of plant growth. Emphasis is placed on the use of important cereal grass, forage and root crops. Laboratory fee, \$3.00. Prerequisite, course 115. Credit, three hours. Wiggin.

**121. Types and Breeds of Farm Animals.** A study of types and breeds of farm animals—their history, development, judging, breeding, handling and important characteristics. Laboratory fee, \$3.00. Credit, three hours. Wiggin.

124. **General Dairying.** The fundamentals of milk production, care and marketing, and the manufacture of products made from milk. Laboratory fee, \$3.00. Credit, three hours. Wiggin.

127. **Types, Breeds, and Management of Poultry.** The origin and development of types and breeds, the general care and management of poultry, incubation, and the marketing of poultry products. Laboratory fee, \$3.00. Credit, three hours. Wiggin.

131-132. **Floriculture and Greenhouse Management.** A study of important cut-flower and pot-plant crops grown in greenhouses, the construction and management of greenhouses, and flower store management and floral designing. Laboratory fee, \$2.00 each semester. Credit, two hours each semester. Wiggin.

135. **Farm Management.** A study of the application of problems of rent, wages, labor, land values, marketing, and various phases of farm efficiency. Credit, three hours. Copeland.

141-142. **Evolution and Heredity.** A consideration of the prominent theories relating to environment, evolution and inheritance. Prerequisite, a knowledge of botany and zoology. Credit, three hours each semester. Copeland.

143. **Genetics.** Theories relating to variations, mutations and changes leading to the origin of new races and varieties of plants or animals. Prerequisite, course 142. Credit, three hours. Copeland.

146. **Eugenics.** Problems of inheritance and environmental factors that relate to race betterment. Prerequisite, course 142. Credit, two hours. Copeland.

161. **Teaching of Agriculture.** Methods of agricultural instruction suited to rural, village, and city schools. Credit, three hours. Copeland.

220. **Plant Growth.** A course in the advanced phases of plant growth dealing with such phenomena as trophism, adaptations, periodicity, physical and chemical responses and correlations. One lecture and four to eight laboratory hours a week. Laboratory fee, \$1.00 for each credit hour. Prerequisite, courses 101, 116. Credit, three to five hours. Wiggin.

222. **Agricultural Problems.** A course designed to train the student in some important advanced laboratory methods and research problems encountered in the agricultural field with an accompanying survey of available literature. One lecture and four to eight laboratory hours a week. Laboratory fee, \$1.00 for each credit hour. Prerequisite, courses 101, 116. Credit, three to five hours. Copeland.

226. **Forest Survey.** A field-laboratory study of special topics selected from: forest management, forest technic, natural and artificial regeneration of woodlots, locations and habitats of trees, forests and erosion, forestry and permanent agriculture. Six to ten laboratory hours a week. Laboratory fee, \$1.00 for each credit hour. Prerequisite, course 106. Credit, three to five hours. Copeland.

**381. Research in Agriculture.** Problems for investigation confined to conservation of natural resources of the farm, domestication of wild plants, and rural economics. Six to twenty field or laboratory hours a week. Laboratory fee, \$1.00 for each credit hour. Prerequisite, courses 101, 106, and six hours in botany. Credit, three to ten hours. Copeland.

## ARCHAEOLOGY AND ANTIQUITIES

(See Classical Languages)

## ART

(See Painting and Allied Arts)

## ASTRONOMY

(See Mathematics and Astronomy)

## BIOLOGY

(See Zoology)

## BOTANY

**1-2. Freshman Botany.** A general survey of the field of botany. Two lectures and two laboratory hours a week. Laboratory fee, \$3.00 each semester. Credit, three hours each semester. Boetticher, Vermillion.

**5. Biology.** The course acquaints the student with the many living things in order to enrich his understanding of their significance to human life. The field work includes the observing and collecting of some of the autumn flora and fauna. The laboratory work aims to develop microscopic skills in the understanding of micro-organisms and the part they play in everyday life. Laboratory fee, \$3.00. Credit, three hours. Matheny, Boetticher, Vermillion.

**6. Biology.** A study of the flora and fauna of springtime. Emphasis is given to birds, wild flowers, amphibians, reptiles, and the life commonly found in water. Attention is given to experimental work with aquatic life. Field trips. Laboratory fee, \$3.00. Credit, three hours. Matheny, Boetticher, Vermillion.

**101-102. General Botany.** A course in systematic botany intended for advanced students beginning the subject. Not open to those who have credit in courses 1 and 2. Two lectures and two laboratory hours a week. Laboratory fee, \$3.00 each semester. Credit, three hours each semester. Matheny, Boetticher.

**107. Wild Flower Identification.** A summer session course intended to familiarize the student with the local flora. Trips will be conducted to nearby points of botanical interest. Two lectures and two laboratory hours a week. Credit, three hours. Boetticher.

**109-110. Plant Ecology.** A study of plants in relation to their environment. Two lectures and two laboratory hours a week. Laboratory fee, \$3.00

each semester. Prerequisite, course 2 or 102. Credit, three hours each semester. Matheny.

**123-124. General Science.** A general course intended for those who expect to teach the subject. Credit, three hours each semester. Matheny.

**127. Bacteriology.** An introductory course. Laboratory practice in the methods of cleaning, sterilizing, and disinfecting; preparation of various media; isolation and care of pure cultures; fermentation tests; water tests—presumptive for typhoid; milk tests; use of indicator media; and bacterial counts. Through the growth and handling of non-pathogenic bacteria experiments are performed showing some of the common modes of disease transference. Staining and microscopic technique is employed. Laboratory fee, \$3.00. Credit, three hours. Matheny.

**131. The School Museum.** A study of the use, organization, and care of the school museum. Practice in the university museum. Credit, two hours. Matheny.

**161. Teaching of Botany.** Credit, two hours. Matheny.

**163. Teaching of General Science.** Credit, two hours. Matheny.

**205. Plant Physiology.** The physiology of absorption, rise of sap, transpiration, and the general water relation of plants. Two lectures and two laboratory hours a week. Laboratory fee, \$3.00. Prerequisite, course 2 or 102, and high school or college chemistry. Credit, three hours. Vermillion.

**206. Plant Physiology.** The physiology of food synthesis, translocation, respiration, fermentation, waste products, and growth. Two lectures and two laboratory hours a week. Laboratory fee, \$3.00. Prerequisite, course 2 or 102, and high school or college chemistry. Credit, three hours. Vermillion.

**209-210. Plant Microtechnic.** The killing, fixing, imbedding, sectioning, staining, and mounting of plant tissues. The use of the camera lucida, microimeters, and photomicrographic practices. Two lectures and two laboratory hours a week. Laboratory fee, \$3.00 each semester. Prerequisite, course 2 or 102. Credit, three hours each semester. Boetticher.

**215-216. Taxonomy of Vascular Plants.** The phylogeny of pteridophytes and gymnosperms with special attention to floral structures and organography. The taxonomy of monocotyls and dicotyls. Two lectures and two laboratory hours a week. Laboratory fee, \$3.00 each semester. Prerequisite, course 2 or 102. Credit, three hours each semester. Boetticher.

**221-222. Plant Pathology.** A course dealing with the nature, cause and control of plant diseases. Two lectures and two laboratory hours a week. Laboratory fee, \$3.00 each semester. Prerequisite, course 2, 102, or 110. Credit, three hours each semester. Vermillion.

**227. Freshwater Algae.** The structure, classification, and environmental relations of freshwater algae. Two lectures and two laboratory hours a week. Laboratory fee, \$3.00. Prerequisite, course 2, 102, or 110. Credit, three hours. Matheny.

**281. Research in Botany.** Laboratory fee, \$1.00 for each credit hour. Prerequisite, twenty hours of botany. Credit, one to six hours. The staff.

**291. Seminar in Botany.** Prerequisite, fifteen hours of botany. Credit, one or two hours. The staff.

**395. Thesis.** Credit, three to six hours. The staff.

## BUSINESS LAW

**155-156. Business Law.** The principles of law involved in ordinary business transactions. Prerequisite, junior standing. Credit, three hours each semester.

**175. Government and Business.** Government control of business outlining the development of federal, state, and municipal regulation, control and aid. Prerequisite, junior standing. Credit, two hours. Hanson, Gruchy.

**211. Law of Partnerships and Corporations.** An intensive treatment of the law of partnerships and corporations. Prerequisite, course 156. Credit, three hours.

**222. Law of Commercial Paper.** A comprehensive study of bills and notes. Prerequisite, course 156. Credit, three hours.

**231. Law of Wills and Administration.** The Interstate Law, Wills Act, settlement of estates, etc. Prerequisite, course 156. Credit, two hours.

**242. Law of Real Estate and Conveyancing.** The legal and business aspects of the sale, purchase, and management of real property. Prerequisite, course 156. Credit, two hours.

## BUSINESS MANAGEMENT

**15. Introduction to Business Management.** A comprehensive picture of business life covering the organization and functioning of business enterprises. Credit, three hours. Beckert.

**211. Industrial Management.** The principles of the organization and the management of industrial enterprises, the management movement, and the newer principles and practices in functional factory organization. Prerequisite, economics 102. Credit, three hours. Armbruster.

**242. Industrial Developments.** A non-technical study of organization and major problems of a few basic industries. Prerequisite, economics 102 and finance 121. Credit, two hours. Wolfe.

**271. Business Policy.** A correlation of the work of other courses offered in commerce. Business problems of general administration rather than those of any special activity are considered. Prerequisite, economics 102 and senior standing. Credit, three hours. Armbruster.

## CHEMISTRY

1-2. General Chemistry. Three lectures and four laboratory hours a week. Laboratory fee, \$4.00 each semester. Credit, four hours each semester. Morton, Gullum, Eblin.

3-4. Advanced General Chemistry. Three lectures and three laboratory hours a week. Laboratory fee, \$4.00 each semester. Prerequisite, high school chemistry. Credit, four hours each semester. Clippinger, Eblin.

105-106. Qualitative Analysis. The separation and detection of metals. The second semester continues with a complete qualitative analysis of simple substances and mixtures. One lecture and about eight laboratory hours a week. Laboratory fee, \$3.00 each semester. Prerequisite, course 2 or 4. Credit, three hours each semester. Gullum.

109-110. Quantitative Analysis. The course covers the problem side of analytical chemistry as well as the laboratory work. The aim of the course is to teach the student the rapidity and accuracy necessary to analytical work; the interpretation of results and the exercise of care and integrity. Primarily volumetric analysis. During the second semester the following phases will be considered: iodometry, volumetric precipitation, electrolytic and electrometric analysis, and gravimetric procedure. Laboratory fee, \$4.00 each semester. Prerequisite, course 105. Credit, four hours each semester. Clippinger.

115-116. Organic Chemistry. The course is designed for students in the pre-medical and chemical courses. Prerequisite, course 2 or 4. Credit, three hours each semester.

119-120. Organic Preparations. Practical work in organic chemistry. Laboratory fee, \$2.00 each semester. Prerequisite, course 115 or with 115. Credit, two hours each semester.

122. Physiological Chemistry. Two lectures and four laboratory hours a week. Laboratory fee, \$3.00. Prerequisite, course 115. Credit, three hours. Gullum.

161. Chemistry Laboratory Practice. Instruction and practice in laboratory teaching and supervision. Prerequisite, permission. Credit, two to four hours. Morton.

201-202. Inorganic Preparations. A fundamental course in the preparation of typical chemical substances in the pure condition. The course will illustrate the general methods of simple crystallization in the presence of isomorphous impurities, and crystallization after the chemical removal of the impurities. Several electrochemical preparations will be included. Laboratory and conferences. Laboratory fee, \$4.00 each semester. Prerequisite, course 109. Credit, four hours each semester. Clippinger.

205-206. Advanced Quantitative Analysis. Special problems in analytical chemistry. Laboratory fee, \$3.00 each semester. Prerequisite, course 110. Credit, three hours each semester. Clippinger.

209. Advanced Organic Chemistry. A presentation of special topics in

the field of organic chemistry. Contributions of organic chemistry to fundamental chemical principles, and the applications of chemical theories to problems of organic chemistry will be emphasized. Credit, two hours. Eblin.

**213-214. Physical Chemistry.** Prerequisite, courses 2, 115, and mathematics 6. Credit, three hours each semester. Morton.

**215-216. Practical Physical Chemistry.** Laboratory fee, \$3.00 each semester. Prerequisite, course 213 or with 213. Credit, three hours each semester. Morton.

**217-218. Advanced Physical Chemistry.** Prerequisite, course 214 and mathematics 118. Credit, two hours each semester. Morton.

**221. Chemistry of Engineering Materials.** A study will be made of the chemical properties of materials used in building construction, equipment, and in plant operation. Theories which account for corrosion, for hardening of cement, for effects of heat treatment of steels and for action in primary and secondary electric cells will be introduced. Prerequisite, course 109. Credit, three hours. Clippinger.

**224. Metallography.** A study of metallic structure, heat treating, polishing, microscopic examination and photographing of steels and other alloys. Laboratory fee, \$3.00. Prerequisite, course 221. Credit, three hours. Clippinger.

**225. Electrochemistry.** A study of the fundamentals of electrolysis, the phenomena of electrolytic dissociation, conductance, transference, electrokinetics, electromotive force of concentration and oxidation-reduction cells, polarization, and depolarization. Practical applications of electrolytic reduction and oxidation. Prerequisite, course 214. Credit, two hours. Clippinger.

**227. Atomic Structure.** The modern theory of the atom and the application to chemical phenomena. Prerequisite, course 214. Credit, two hours. Morton.

**228. Colloid Chemistry.** Theoretical discussion and applications to chemical industry. Prerequisite, course 214. Credit, two hours. Eblin.

**251. Special Problems in Chemistry.** A consideration of special problems and methods as applied to the chemical industries. Laboratory fee, \$1.00 for each credit hour. Prerequisite, permission. Credit, three to six hours. Gullum.

**301. Problems in Physical Chemistry.** Prerequisite, course 216. Credit, two or three hours. Morton.

**381. Research in Physical Chemistry.** Prerequisite, permission. Credit, three to twelve hours. Morton.

**383. Research in Organic Chemistry.** Prerequisite, permission. Credit, three to twelve hours.

**385. Research in Quantitative Analysis.** Prerequisite, permission. Credit, three to twelve hours. Clippinger.

**395. Thesis.** Credit, two to four hours. The staff.

## CIVIC BIOLOGY

(See Botany)

## CIVIL ENGINEERING

1-2. **Mechanical Drawing.** The work consists of lettering, use of the instruments, geometric constructions, orthographic projection, auxiliary views, revolution, sectional views, and dimensioning. The helix, bolts and screws, isometric and oblique drawings, and detail and assembly drawings of standard machines are made and dimensioned. Floor plans and elevations of a house are prepared to acquaint the student with the reading of drawings. Tracings and blue prints are prepared. Students who enter with one or more units of mechanical drawing may be excused by the instructor from a part or all of this course. Credit, two hours each semester. Thomas.

6. **Plane Surveying.** A study of surveying methods and methods of computation. Three afternoons a week are devoted to field work during the last eight weeks. Each student completes twenty field problems. Laboratory fee, \$3.00. Prerequisite, mathematics 5. Credit, three hours. Clark.

10. **History of Civil Engineering.** The course discusses the origin of the civil engineering profession and traces the development of the other branches of engineering. A discussion of the present-day tendency to specialization and the opportunities for success. Credit, one hour. Thomas.

16. **Engineering Instruments.** The slide rule, verniers, and planimeters are studied. Prerequisite, mathematics 5. Credit, one hour. Thomas.

101. **Descriptive Geometry.** Prerequisite, course 1 or with 1. Credit, three hours. Thomas.

102. **Descriptive Geometry.** Prerequisite, course 101. Credit, two hours. Thomas.

116. **Perspective Drawing.** A study of the representation of an object as it would appear on the plane, when viewed from a point. The drawing of shadows on objects and planes, both in parallel and oblique perspective, is studied. Prerequisite, course 2. Credit, one hour. Clark.

121. **Railroad Engineering.** A study of simple and compound curves, turnouts, vertical curves, earthwork, and construction methods. Prerequisite, course 6. Credit, three hours. Clark.

131. **Field Work.** After the preliminary survey for a railroad or highway is made, each student makes a profile of the line and computes the cut, fill, and cost estimate. The field work is completed by setting slope stakes, etc. Laboratory fee, \$2.00. Prerequisite, course 6 and with course 121. Credit, two hours. Clark.

136. **Applied Mechanics.** A study of the various kinds of forces: friction, center of gravity, static moment, moment of inertia, rectilinear motion, rotation, work, energy, impulse, and momentum. Prerequisite, mathematics 6. Credit, three hours. Addicott.

**146. Topographic Surveying.** The application of the principles of surveying to map-making. A study is made of horizontal and vertical control, triangulation, stadia traversing, and proper note taking and reduction. Field work. Laboratory fee, \$2.00. Prerequisite, course 6. Credit, two hours. Clark.

**149. Mechanics of Materials.** A study of the resistance and elasticity of materials, ultimate stresses and deformations, riveted joints, shear and moments in beams, stresses and deflections in beams, various types of beams, and the various column formulae. Prerequisite, course 136. Credit, four hours. Addicott.

**152. Testing Laboratory.** A series of experiments on the tensile, compressive and shearing strengths of the principal materials of engineering. Laboratory fee, \$1.00. Prerequisite, course 149. Credit, one hour. Addicott.

**155. Stresses in Structures.** Application of the laws of static equilibrium to analysis of stresses in component parts of engineering structures. Prerequisite, course 136. Credit, five hours. Gaylord.

**159. Graphic Statics.** A study of the graphic solution of statically determinate forces. The work includes the use of equilibrium polygon and stress diagrams. Prerequisite, course 136. Credit, one hour. Gaylord.

**161. Mechanical Drawing and Teaching Methods.** Projects and methods suitable for use in teaching drawing in the grades and high schools are studied. Working drawings of furniture and of different kinds of joints used by the cabinet maker are prepared and traced. A course for students in Industrial Arts. Prerequisite, course 1. Credit, two hours. Thomas.

**171. Topographic Drawing.** The principles of symbolic representation in map making are studied and applied. Prerequisite, course 146. Credit, one hour. Clark.

**174. Advanced Surveying Problems.** It covers the principles and practice involved in calculations for azimuth, longitude and latitude by means of astronomic observations on Polaris and the sun, the use of the Plane Table, and an intensive study of contour lines. Prerequisite, course 146. Credit, one hour. Clark.

**202. Structural Design.** Principles involved in the design of members for steel structures. Applications and problems in the design of roof trusses, steel bridges, and steel frames for buildings are discussed. Prerequisite, courses 149, 155. Credit, five hours. Gaylord.

**203. Structural Design.** Each student is required to make a complete design for a highway or railroad bridge, following standard specifications for such bridges as issued by the state highway departments and railroad companies. Prerequisite, course 202. Credit, two hours. Gaylord.

**209. Reinforced Concrete.** A course dealing with the theory and design of slabs, beams, columns, and footings. Prerequisite, course 136. Credit, four hours. Addicott.

**213. Design of Arches.** Analysis and design of the reinforced concrete

arch from the standpoint of the earlier theories as well as on the basis of the elastic theory. Prerequisite, courses 159, 202, and mathematics 118. Credit, two hours. Gaylord.

214. **Concrete Design.** The course consists of problems in concrete design. Each student is required to check an assigned arch by use of approximate methods and by application of the elastic theory. Prerequisite, courses 213, 209. Credit, two hours. Gaylord.

221. **Hydraulics.** The course deals with the application of the fundamental principles of hydraulics to engineering. Prerequisite, course 136. Credit, four hours. Gaylord.

226. **Sanitary Engineering.** A study of sewer systems and sewage disposal, rational methods of estimating quantities of sewage, and the construction and relative advantages of various types of disposal plants. Prerequisite, course 221. Credit, three hours. Clark.

231. **Highway Engineering.** The course deals with materials, drainage, alinement, capacity, and finance as used in construction, maintenance, and operation of the modern highway. Prerequisite, course 121. Credit, two hours. Thomas.

236. **Masonry.** A study of materials and their use in the construction of masonry structures such as foundations, dams, walls, abutments, and arches. Prerequisite, courses 136, 209. Credit, three hours. Addicott.

240. **Water Supply.** A study of the design, construction, maintenance of water supply systems. Among the subjects discussed are sources of water supply, purification, delivery systems, and practical construction. Prerequisite, course 221. Credit, two hours. Addicott.

245. **Mine Engineering.** A study of mine surveying, ventilation, and timbering. The course deals primarily with the coal industry. Prerequisite, course 6. Credit, three hours. Addicott.

250. **Engineering Costs.** A study of economy in engineering. Items discussed are: comparisons of immediate economy, comparisons of ultimate economy, question of advisability of replacing an existing structure, engineer's use of accounting records and estimating technique. Credit, three hours. Gaylord.

254. **Statically Indeterminate Structures.** A study of the theory of analysis of structures for which the conditions of static equilibrium do not suffice to effect a solution. Prerequisite, course 202, mathematics 118, and permission. Credit, three hours. Gaylord.

258. **Contracts and Specifications.** A study in the writing and use of engineering contracts and specifications. Credit, two hours. Addicott.

## CLASSICAL LANGUAGES

### ARCHAEOLOGY AND ANTIQUITIES

101. **Introduction to Archaeology.** The history of the development of archaeology from its earlier stages to its present status of dignity and sci-

entific method. The methods and technique of archaeology, its aims and purposes, and the general types of archaeological work and excavation. Credit, three hours. Hill, Harris, Johnston, Taylor.

**202. The Archaeology of the Mediterranean Area.** The course is designed to provide a comprehensive appreciation and understanding of the more important archaeological activities. The course deals with the archaeology of Palestine and Egypt, with emphasis on the Minoan (Cretan) and Mycenaean archaeology and civilization, the archaeology of Greece and Aegean islands, and to a lesser extent with the archaeological remains of the Roman period. Credit, three hours. Hill, Scott, Harris, Taylor.

For additional courses in Antiquities see the following:

**History 233. History of Civilization.** Credit, three hours.

**Latin 229. History of Roman Culture.** Credit, two hours.

**Latin 231. The Life of the Romans.** Credit, two hours.

**Sociology 116. Cultural Anthropology.** Credit, three hours.

## GREEK

**1-2. Beginning Greek.** The development of a practical working vocabulary, minimum essentials in forms and syntax, and reading selections from classical authors. Attention to the Greek element in English. Credit, four hours each semester. Hill.

**101-102. Xenophon, Homer, and Plato.** Review of principles in grammar and syntax in conjunction with the reading of parts of Xenophon's *Anabasis*. Selections from Homer's *Iliad* and *Odyssey*. In the second semester there will be the reading of Plato's *Apology* and *Crito* with some attention to allied philosophical works. Prerequisite, course 2. Credit, three hours each semester. Brokaw.

**114. The Greek Epic in English.** The *Iliad* and *Odyssey* will be read in translation. Some attention will be given to the development of the epic. Credit, one hour. Scott.

**115-116. Contributions of Greek Civilization.** A study of the contributions of Greek civilization to modern life. Specific subjects are studied and discussed for the part Greece had in their development: history, geography, music, literature, medicine, architecture, mathematics, and science. Credit, one hour each semester. Hill.

**127. Greek Words in English.** Literary and scientific terms of Greek origin which provide a major part of the technical and semi-technical vocabulary in many of the professions. Assignments for developing the student's vocabulary in his particular field. No previous knowledge of Greek required. This course may be offered for the fulfillment of foreign language requirements. Prerequisite, six hours in foreign language or in English. Credit, two hours. Hill, Brokaw.

211. Greek Drama in English. Prerequisite, twelve hours in English. Credit, two hours. Scott.

216. New Testament Greek. Prerequisite, eleven hours in Greek. Credit, two hours. Hill.

309. Greek Lyric Poets. Prerequisite, fourteen hours in Greek and twelve hours in Latin. Credit, two hours. Hill.

310. The Greek Orators. Prerequisite, fourteen hours in Greek and twelve hours in Latin. Credit, two hours. Hill.

## LATIN

1. Elementary Latin. A course covering the essentials in beginning Latin. Credit, four hours. Drake.

2. Caesar. Selections from the *Gallic War* preceded by the reading of narrative dealing with mythology and Roman history. Prerequisite, course 1. Credit, five hours. Drake.

3. Cicero. The reading of selected orations and a review of forms. Prerequisite, course 2 or two years of high school Latin. Credit, four hours. Brokaw.

4. Vergil. The reading of a portion of the first six books of the *Aeneid*, with some study of classical mythology. Prerequisite, course 3, or permission. Credit, five hours. Brokaw.

101. Cicero's Essays. *De Amicitia*, *De Senectute*, *Scipio's Dream*. Prerequisite, course 4, four years of high school Latin, or three years and permission. Credit, four hours. Hill.

102. Horace and Terence. The *Odes* and *Epodes*, and the *Phormio*. Prerequisite, course 101. Credit, four hours. Hill.

103. Pliny. Selected letters. Prerequisite, course 102. Credit, three hours. Scott.

104. Livy and Ovid. Selections from the *Histories* and the *Metamorphoses*. Prerequisite, course 101. Credit, three hours. Brokaw.

112. Writing Latin Prose. Exercises in the writing of Latin, designed to review the more important principles of Latin syntax. Prerequisite, course 101. Credit, one hour. Hill.

121. Sallust. The *Catiline* and selections from the *Jugurtha*. Summer sessions only. Prerequisite, course 4. Credit, three hours. Hill, Brokaw.

123. Nepos and Livy. Selected *Lives* of Nepos, and selected readings from Livy ranging in time from the founding of the Republic to the end of the Punic Wars. Summer sessions only. Prerequisite, course 4. Credit, three hours. Brokaw.

125. Cicero, Selected Works. The reading of orations of Cicero and selections from other works. Summer sessions only. Prerequisite, course 101 or permission. Credit, three hours. Hill, Brokaw.

162. **Teaching of Latin.** Prerequisite, course 103 or permission. Credit, two hours. Hill, Scott.

211. **Cicero and Catallus.** Selected letters from Cicero and selections from Catullus. Prerequisite, course 103. Credit, three hours. Hill.

212. **Caesar and Plautus.** Caesar's *Civil War* and Plautus' *Captivi* or *Mostellaria*. Prerequisite, course 103. Credit, three hours. Scott.

213. **Horace and Juvenal.** *Satires*. Prerequisite, course 103. Credit, three hours. Hill, Brokaw.

214. **Tacitus and Medieval Latin Selections.** The *Agricola* and *Germania* will be read from Tacitus. Prerequisite, course 103. Credit, three hours. Scott.

220. **Vergil, Latin Epic.** Lectures on the general literary content and technique of the *Aeneid*, with translations from the last six books. Summer session only. Prerequisite, course 103. Credit, three hours. Hill.

221. **Seutonius.** The lives of Julius Caesar and of Augustus with some discussion of facts obtained from other sources. Summer sessions only. Prerequisite, course 103. Credit, three hours. Hill, Brokaw.

222. **The Latin Dramatists.** Selected plays from Plautus and Terence and one of the tragedies of Seneca. Informal lectures on the different forms of drama among the Romans and their relation to the Greek. Summer sessions only. Prerequisite, course 103. Credit, three hours. Hill.

223. **Vergil's Eclogues and Georgics.** Informal lectures on the early life of Vergil with the reading of selections from the *Eclogues* and *Georgics*. Some attention will also be given to the collection of minor works known as the *Apendix Vergiliana*. Summer sessions only. Prerequisite, course 103. Credit, three hours, Hill.

224. **Petronius.** *Cena Trimalchionis* will be read and studied both for the light it throws on social life at Rome and as an example of the Latin of the Empire. Prerequisite, course 104. Credit, two hours. Brokaw.

225. **De Natura Deorum.** Cicero's presentation of the classic conception of the nature of god and the founding of the universe. Prerequisite, course 104. Credit, two hours. Hill.

226. **Martial.** A study of the epigrams of Martial as they portray with vivid personal touch almost every phase and station of Roman life. Prerequisite, course 104. Credit, one hour. Hill, Brokaw.

227. **Roman History in the Classical Period.** A brief survey of the outstanding events of Roman history during the period in which the most important Latin literature was produced. Summer sessions only. Prerequisite, six hours in Latin or nine hours in history and antiquities. Credit, one hour. Hill.

228. **Roman Religion and Mythology.** Emphasis upon the relationship between Roman religion and mythology and upon the attributes and functions of the various divinities and mythological characters. Prerequisite, ten hours

in classical languages or history and antiquities, or fourteen hours in English. Credit, two hours. Hill, Brokaw.

**229. History of Roman Culture.** Beginning with the archaeological evidence of civilization in Italy and in the whole area of the Mediterranean at the time of the traditional founding of Rome, the course is designed to trace the various influences and stages in the growth of Roman culture. Prerequisite, nine hours in Latin or twelve hours in history and antiquities. Credit, two hours. Hill.

**231. The Life of the Romans.** A study of the social customs of the Romans with special attention to the monumental evidence in antiquities illustrative of Roman life. The course deals with such topics as the form of the Roman house, methods of transportation, sources of income, social organization, slavery, public amusements, and related features of Roman life. Prerequisite, twelve hours in Latin or in history and antiquities. Credit, two hours. Scott.

**232. Introduction to the History of Language.** A study of the principles of linguistic change. Special attention to the development of the Romance languages from Latin and to the history and development of English. Prerequisite, fourteen hours in foreign language or twelve hours in English. Credit, two hours. Scott.

**233. Advanced Latin Syntax.** Prerequisite, course 103. Credit, one to three hours. Hill, Brokaw.

**238. Epigraphy and Paleography.** An introductory study of the form and content of Latin inscriptions with the reading of a limited number to illustrate their value as a source of information. A consideration of Latin manuscripts, the various styles of writing, and the relation of the manuscripts to the established text of a Latin author. Prerequisite, course 103. Credit, two hours. Hill, Brokaw.

**240. Special Work in Latin.** Prerequisite, course 103. Credit, one to five hours. The staff.

**311. Ovid's *Fasti*.** The first book of the *Fasti* will be read for content. A knowledge of the beginnings of Roman religion, and elementary principles of text criticism. Prerequisite, fifteen hours in Latin. Credit, three hours. Hill.

**312. Sallust's *Catiline* and *Jugurtha*.** Prerequisite, twenty semester hours in Latin. Credit, three hours. Hill.

**313. Latin of the Transition Period.** Prerequisite, twenty semester hours in Latin. Credit, three hours. Hill.

**395. Thesis.** A thesis may be offered in Latin or classical languages. Credit, four to eight hours. The staff.

## COMMERCE

(See Accounting, Advertising, Business Law, Business Management, Finance, Marketing, Secretarial Studies, and Statistics).

## DRAMATIC ART

**1. Public Speaking.** Study and practice to enable the student to build a speech that shall be both interesting and persuasive. Attention will be given to the use of the voice and the body in the delivery of the speech. Credit, two hours. Cooper.

**15. Voice and Diction.** The development of a pleasing and effective speaking voice. Emphasis is given to voice production and projection, attack, melody, tonal shading, phrasing, enunciation, and pronunciation. The oral reading and interpretation of modern prose and poetry before the class audience. Laboratory fee, \$2.00. Credit, two hours. Staats.

**102. Public Speaking.** An extended study and application of the principles of public speaking. Prerequisite, course 1 or 15. Credit, three hours. Cooper.

**106. Oral Expression.** Practice and study in the oral presentation of subject matter. Credit, one hour. Cooper.

**110. Parliamentary Law.** A study of the art of conducting a public gathering and of presiding over an assembly. Credit, two hours. Cooper.

**114. Writing the Oration.** Individual instruction in the preparation and delivery of speeches and orations for special occasions, and for local, state, and national oratorical contests. Actual occasions and actual audiences in Athens and in neighboring towns. Prerequisite, permission. Credit, three hours. Staats.

**117. Inter-Collegiate Debate.** Preparing for and participating in at least two inter-collegiate debates constitutes the work of the course. The course is open to the members of the university debating teams. Credit, three hours. Staats.

**121-122. Theatre Arts.** Designing and constructing stage settings, costume design for the theatre, lighting, make-up, and production methods. Application of theory and principles of stage-craft through the production activities of Playshop. Six laboratory hours a week. Credit, three hours each semester. Jukes.

**125-126. Dramatic Interpretation.** Theory and practice of acting for the amateur actor by means of pantomime, improvisation of dramatic scenes, the monologue, and excerpts from plays. Laboratory plays presented in the Play Directing class. Prerequisite, course 15. Credit, three hours each semester. Jukes.

**131. Stagecraft.** The course deals with principles and art of make-up, organization of the production staff, principles of management, ethics and efficiency of the back-stage area. Opportunity to practice the principles of dramatic production in the experimental theatre and in the work of Playshop. Credit, three hours. Jukes.

**134. Oral Interpretation of Poetry and Prose.** The objective of the course is to teach the student to read distinctly and meaningfully. Credit, two hours. Staats.

**139. Argumentation and Debate.** A study of the theory of debate and argumentation. Frequent class debates, practice in brief making, analysis of questions, rebuttal, and delivery. Credit, two hours. Staats.

**142. Extempore Speaking.** The course is designed to give the speaker facility in outlining a subject, and in effective presentation of material. Speeches for special public occasions. Prerequisite, course 1. Credit, three hours. Staats.

**162. Play Directing and Teaching Methods.** A course in the technique of staging a play, and in the art of directing play rehearsals. A study of stage terms, characterization, stage balance and grouping, stage movements and business, tempo, pause, emphasis, climax, and stage pictures. Plays selected for high school, colleges, and town presentation are read, staged, and criticized. Credit, three hours. Cooper.

**201. Psychology of Public Speaking.** A study of the most effective means of influencing human behavior through speech. Prerequisite, six hours in the department. Credit, two hours. Cooper.

**208. History of Oratory.** Class study of orations characteristic of the oratory of various periods of history. Prerequisite, six hours in the department. Credit, three hours. Staats.

**213. History of the Theatre.** The high lights of the course are: the Greek theatre, Shakespeare, the Restoration theatre, romanticism in the theatre, the Realistic theatre, and the so-called "new movement" in the theatre. Prerequisite, six hours in the department or twelve hours in English. Credit, three hours. Jukes.

## ECONOMICS

**1. Economic Development.** The course describes the origin and development of economic and social institutions, and explains the present economic problems by setting forth a historical and bibliographical background. It explains the casual inter-relationships of the American economic system. Credit, three hours. Gubitz, Hellebrandt.

**2. Economic Development.** The course explains the inter-relationships of the European economic system. Credit, three hours. Gubitz, Hellebrandt.

**101-102. Principles of Economics.** The following economic material will be presented: production, consumption, distribution, exchange, money and banking, business cycles, credit, international economic relations, government and taxation, and economic control. Credit, three hours. Gubitz, Hellebrandt.

**201. Labor Legislation.** The course sketches the historical background of various labor problems indicating the nature and extent of each and describing the legislative remedies which have been applied. Prerequisite, course 102. Credit, two hours. Gubitz.

**204. Labor Relations.** The course is a general survey of the forces that give rise to modern labor problems. The purpose of the course is: to give a

basis for the developing of a general point of view, to make an analysis of the major problems involved, to indicate the trend of policy and organization, and to offer constructive suggestions for the handling of administrative problems. Prerequisite, course 102. Credit, three hours. Gubitz.

**205. Transportation.** The social, political, and economic aspects of the transportation problem are viewed by analyzing the nature, history, and problems of the various transportation agencies of the United States. Prerequisite, course 102. Credit, two hours. Hellebrandt.

**208. Public Utilities.** The course is a study of the economic basis of public utility enterprise: its nature and scope, its development and legal organization. Prerequisite, course 102. Credit, two hours. Hellebrandt.

**211. Land Economics.** The course will include studies of the following: characteristics, classification, present and future utilization, property rights in water, ownership, land credits, values and valuations, the social ends of land utilization, and policies of land taxation. Prerequisite, course 102. Credit, two hours. Gubitz.

**215. Public Finance.** A survey of government expenditures, revenues, debts, and principles of financial administration. Prerequisite, course 102. Credit, two hours. Gubitz.

**216. Taxation.** The course will deal with trends in public expenditures and the incidence of taxation. Prerequisite, course 102. Credit, two hours. Gubitz.

**219. Insurance.** Prerequisite, course 102. Credit, two hours. Hellebrandt.

**220. Trust and Corporation Problems.** Prerequisite, course 102. Credit, three hours. Gubitz.

**223. Business Cycles.** An analysis of the nature and characteristics of the modern business system. Prerequisite, course 102. Credit, two hours. Gubitz.

**227. Current Economic Problems.** Prerequisite, course 102. Credit, three hours. Gubitz.

**230. History of Economic Thought.** A study of the historical evolution of the principal economic doctrines: the Athenian philosophers and Roman jurists, the mercantilists and cameralists, the physiocrats and Adam Smith, the classical school, the historical school, and the Austrian school. Prerequisite, course 102. Credit, two hours. Gubitz.

**281. Research in Economics.** Prerequisite, fifteen hours in the department and permission. Credit, two hours. Gubitz, Hellebrandt.

**302. Modern Economic Thought.** A general survey of contemporary economic thought. It includes a study of J. B. Clark, Thorstein Veblen, Alfred Marshall, J. A. Hobson, W. C. Mitchell, and others. Prerequisite, twelve hours in the department. Credit, two hours. Gubitz.

**304. Institutional Economics.** A study of the collective action in the control, liberation, and expansion of individual action. Consideration will be given to the writings of economists from John Locke to the twentieth century and to court decisions. Prerequisite, twelve hours in the department. Credit, two hours. Hellebrandt.

**391. Seminar in Economics.** Prerequisite, fifteen hours in the department. Credit, two to five hours. The staff.

**395. Thesis.** Credit, four to eight hours. The staff.

## EDUCATION

### ELEMENTARY EDUCATION

#### INTERMEDIATE GRADES

**63. Teaching of Arithmetic in Intermediate Grades.** The course deals with methods of presenting the subject matter of the arithmetic curriculum in grades four, five, and six. It includes the result of experimental investigations. Standardized tests and mechanical drill devices are treated. Credit, three hours. Morton, Benz.

**66. Teaching of Reading in Intermediate Grades.** The course is divided into a study of the materials of reading, methods and procedures, diagnostic and remedial work in grades four, five, and six. A general survey of work in the primary grades is included. Credit, two hours. Hansen.

**101. Elementary Education.** Principles, management, and tests in elementary education. A unitary course to parallel observation and student teaching in the kindergarten and elementary school. Student teachers' problems become the basis for discussing, investigating and utilizing educational theory. Elementary schools other than those in which students are teaching will be visited. Laboratory fee, \$6.00. Credit, six hours. Beechel, MacLeod, Class.

**103. History of Modern Elementary Education.** See History and Administration.

**104. Principles of Elementary Education.** The course is a synthetic treatment of the aims of education; the nature of the learner and of society, of subject-matter including methods; and the sociological needs of contemporary life. Particular attention is given to recent conceptions of the function of education in a democratic society. Credit, three hours. Beechel.

**107. Educational Tests and Measurements.** A course dealing with both standardized and informal new-type tests for the elementary grades and the junior high school. Problems involved in the building, administering, scoring, and interpretation of results of tests will be considered. Some attention will be given to statistical methods. Laboratory fee, \$2.00. Credit, two hours. Class.

**115. Classroom Management.** Topics considered are: membership and attendance, order and discipline, incentives, the health of the pupil, grading and promotion, the school curriculum, the daily program, supervised study and the assignment, and the use of tests and measurements. Differences between practices in formal schools and activities schools will be considered. Credit, three hours. Beechel, Class.

**122. Observation and Participation.** See Student Teaching.

**124. Student Teaching.** See Student Teaching.

**127-128. Home and Industrial Studies for the Elementary School.** The emphasis is on fundamental values relative to health, economy, art, and social control. Students will have experience in the selection, use, and care of foods, clothing, and furnishings in meeting children's needs in daily living. Four hours a week. Laboratory fee, \$3.00 each semester. Prerequisite, courses 101, 124 or with 101, 124. Credit, three hours each semester.

**174. Advanced Student Teaching.** See Student Teaching.

**201. The Elementary Curriculum.** A study of the principles underlying the selection and organization of subject-matter in the elementary school. Theoretical and practical phases of curriculum making are considered through examination of current scientific investigations, experimental procedures, and courses of study. Credit, three hours. Hansen.

**203. The Supervision of Arithmetic.** Special attention will be paid to the improvement of the course of study and classroom technique. The following topics will be considered in relation to arithmetic: theories of supervision, supervisory tools and techniques, the aims of education, textbook analysis and rating as a basis for selection, social utility, preparation of instructional material, evaluation of courses of study, and psychological analysis of skills. Credit, three hours. Benz.

**381. Research in Teaching of Arithmetic.** The work consists of reading, laboratory practice, or research and experimentation. Credit, two to six hours. Morton, Benz.

**395. Thesis.** Credit, four to eight hours. The staff.

#### KINDERGARTEN-PRIMARY EDUCATION

**31. Play and Play Materials.** The course includes theory and history of play, types of play found in different periods of childhood, sex differences in play, an intensive study and investigation of equipment and play materials, and the development of the organized and formal game. Credit, two hours. Williams.

**33. Literature for Early Childhood.** A study of the field of children's literature, source material, standards of selection, planning story groups for special occasions, dramatization, and experience in story telling. Credit, three hours. MacLeod.

**61. Teaching of Arithmetic in Primary Grades.** Consideration is

given to methods of teaching the subject matter of the arithmetic curriculum in grades one, two, and three. The results of experimental studies and of recent developments in educational psychology are incorporated. Credit, three hours. Morton, Benz.

**65. Teaching of Reading in Primary Grades.** The course deals with the period of preparation for reading instruction and the period of rapid growth in fundamental attitudes, habits, and skills. Scientific investigations are examined for their results as applied to the work of teaching. Credit, two hours. Hansen.

**132. Activities for Early Childhood.** The course includes sources of activities and criteria for judging, planning, and analysing them to determine the outcomes in habits, skills, attitudes, appreciations, and knowledge. A comparison of present day use of activities with the formal use of subject matter. Laboratory fee, \$3.00. Credit, three hours. Quick.

**133. Observation and Participation.** See Student Teaching.

**135, 137. Student Teaching.** See Student Teaching.

**141. Kindergarten-Primary Curriculum.** Credit, three hours. MacLeod.

**146. Current Problems in Kindergarten-Primary Education.** A study is made of the articulation of the nursery school, kindergarten, and primary grades; recent movements in the kindergarten-primary field, and investigation in a special field of interest. Credit, three hours. MacLeod.

**172. Advanced Student Teaching.** See Student Teaching.

**232. Supervision in Kindergarten-Primary Education.** A study of supervisory activities, the relation of the supervisor and teachers in service, observation of teaching, and principles underlying the improvement of teaching. Credit, three hours. MacLeod.

#### SPECIAL EDUCATION

**122. Observation and Participation.** See Student Teaching.

**127. Student Teaching.** See Student Teaching.

**151. Organization and Management of Special Classes.** Topics considered are: need of special education; history of the various classes for sight-saving, crippled, hard of hearing, mentally retarded, and defective in speech; selection and classification of children; methods of cooperation with other departments; case studies and record taking; and direction and after-care work of special class children. Credit, two hours. DeLand.

**153. Diagnosis and Remedial Instruction in Elementary Subjects.** A laboratory course in methods of diagnosis and remedial treatment in fundamental school subjects for problem cases. Topics considered are: history of special education, selection and classification of defective children, methods of cooperation with other departments, and case studies and records. Students will be given opportunity to observe and work with problem children. Credit, two hours. DeLand.

**155. Curriculum and Methods for Special Classes.** Topics considered are: types of curricula for special education, units of work, materials, and subject matter suited to the mental ability and level, and methods of presentation and handling such units. Credit, three hours. DeLand.

#### HISTORY AND ADMINISTRATION

**103. History of Modern Elementary Education.** A study of the development of elementary education especially in the American schools. Attention is given to the educational significance of the reformation, the revival of commerce, the development of science, the growth of the modern state, and the teachings of modern psychology. Credit, three hours. Gard.

**120. The Improvement of the Examination.** The course is designed to aid in improving testing, both of the objective and essay type. Theoretical and statistical discussion is held at the minimum and emphasis is placed upon principles and practice. Tests are constructed and criticized. Practice is given in interpreting tests results with emphasis upon assisting the individual pupil. Prerequisite, course El. Ed. 107 or Ed. 135. Credit, two hours. Masters.

**126. Child Accounting.** The course has for its general purpose a study of the records and reports which should be available for an intelligent understanding of the welfare of the child. The course will include a study of attendance, compulsory education laws, physical welfare, special aptitude, the cost of records, and the use of records for vocational guidance. Credit, two hours.

**131. Principles of Secondary Education.** A study of the fundamental principles or philosophy of education in three or four countries of Europe and in the United States. Some phases of secondary education considered are: general purpose, relation to other levels of education, content and organization of curricula, vocational education, and qualifications of teachers. Credit, three hours. Gard.

**135. Educational Tests and Measurements.** A course dealing with both standardized and informal new-type tests for the senior high school. Problems involved in the building, administering, scoring, and interpretation of results of tests will be considered. Some attention will be given to statistical methods. Laboratory fee, \$2.00. Credit, two hours. Class.

**139. Educational Statistics.** Students in education and psychology are frequently called upon to organize and interpret large groups of quantitative data. The purpose of this course is to present effective methods of dealing with statistics. Credit, three hours. Morton.

**205-206. Training School Problems.** The course is intended for critic teachers, demonstration teachers, directors of student teaching in teacher-training institutions, and for those desiring to prepare for such positions and is open to graduate students and seniors who have had successful teaching experience. The following topics are representative: integration of theory and practice, conferences with and rating of student teachers, the amounts and kinds of laboratory facilities needed, the proper function of practice, demonstration, and experimental schools, and the organization and training of the staff. Credit, two hours each semester. Class.

207. **History of Education.** Beginning with the theory and practice of ancient and mediaeval periods, emphasis will be laid upon political, social, and economic conditions as they have influenced the structure and control of western education. The course closes with the opening of the reformation period. Credit, three hours. Gard.

208. **History of Education in the United States.** A study of the European social, economic, and political influence on colonial life and education, and the development and expansion of public education to the present. Credit, three hours. Gard.

209. **History of Education in Ohio.** Some of the topics considered are: grants of land by the federal government, the character and ideals of the first settlers and the early governors and legislatures, the struggle between the "district system" and the larger units, the influence of the Civil War, and the development of city systems. Credit, three hours. Gard.

211. **The Junior High School.** A study of the development, organization, and administration of the junior high school, including consideration of objectives, the curricula, guidance program, methods of instruction, and student activities. Credit, two hours. Sias.

220. **Comparative Education.** A course based upon the study of the national school systems of western Europe and their political and social influence. Credit, three to six hours. Gard.

221. **Philosophy of Education.** A study of the meaning and pedagogical implications of idealism, pragmatism, and behaviorism and their influence on trends in educational theory and practice. Credit, three hours. Gard.

222. **History of Secondary Education.** The growth of secondary education in the history of western civilization. Special attention is given to England, France, and Germany. Credit, three hours. Gard.

225. **School Administration.** The organization of state, county, and city boards of education with their powers and duties from the viewpoint of the administrator and the board of education. Credit, three hours. Sias.

227. **High School Administration.** A general course in the administration of the high school designed to meet the needs of students without teaching experience. Problems of school and class organization, discipline, grading, curriculum, and extra-class activities are treated from the teachers' viewpoint. Credit, three hours. Sias.

230. **The Federal Government and Education.** A study of the history and development of their relationship. Credit, three hours. Gard.

232. **Progressive Education at Home and Abroad.** A study of a movement in education which questions beliefs, judgments, and practices in organized education. Recent biological, psychological, and sociological findings are studied. Credit, three hours. Beechel.

240. **Vocational Guidance.** Credit, two hours. Sias.

252. **Advanced Educational Statistics.** Non-linear relations, partial cor-

relation, multiple correlation, regression, transmutation of scores, reliability, and the interpretation of correlation coefficients are the principal topics included in this course. Practice is provided in the use of logarithms, statistical tables, and calculating machines. Prerequisite, course 139 and permission. Credit, three hours. Morton.

**281. Research in Education.** Students will be directed in the investigation of selected phases of educational theory and practice. Credit, two to six hours. Gard, Morton, Beechel, Hansen, Benz, Class.

**283. Research in Educational Statistics.** An advanced course in statistics dealing with the derivation of formulae, the analysis of relationships, and the interpretations of results. Prerequisite, course 252 and permission. Credit, two to six hours. Morton.

**302. Problems in School Administration.** A course treating intensively a few problems in school administration. The problems are determined by the interests of the students. Credit, two hours. Sias.

**305. The Supervision of Instruction.** The content of this course includes the evolution of supervision, a study of outstanding supervisory programs, the principles underlying democratic supervision, and a study of the techniques which promote the growth of the teacher in service. The yearbooks for the Department of Supervisors and Directors of Instruction of the N. E. A. are reviewed and practical problems in supervision are emphasized. Prerequisite, course El. Ed. 201. Credit, three hours. Beechel.

**321. The State in Education.** The course is devoted to the study of the state organization of boards of education and departments of public instruction and the principles involved in their administration of state school problems. Prerequisite, course 225 or El. Ed. 201. Credit, two hours. Sias.

**326. Supervision of Student Teaching.** The course provides the novice supervising critic with experience by guiding the work of students who are doing student teaching. The regular supervising critic is directly in charge. Graduate students who have had successful teaching experience are admitted by permission. Prerequisite, course 205 or 206 or with either. Credit, four or six hours. Beechel and Supervising Critics.

**395. Thesis.** Credit, four to eight hours. The staff.

#### TEACHING METHODS

Courses in the methods of teaching assembled from all departments of instruction. For descriptions of courses, refer to the departments.

Accounting	161	Teaching of Bookkeeping. Credit, two hours.
Agriculture	161	Teaching of Agriculture. Credit, three hours.
Botany	161	Teaching of Botany. Credit, two hours.
	163	Teaching of General Science. Credit, two hours.
Chemistry	161	Chemistry Laboratory Practice. Credit two to four hours.
Civil Engineering	161	Mechanical Drawing and Teaching Methods. Credit, two hours.

Dramatic Art	162	Play Directing and Teaching Methods. Credit, three hours.
Education	61	Teaching of Arithmetic in Primary Grades. Credit, three hours.
	63	Teaching of Arithmetic in Intermediate Grades. Credit, three hours.
	65	Teaching of Reading in Primary Grades. Credit, two hours.
	66	Teaching of Reading in Intermediate Grades. Credit, two hours.
English	162	Teaching of Language in the Grades. Credit, two hours.
	163	Teaching of Language in the Junior High School. Credit, two hours.
	165-166	Teaching of English in the Senior High School. Credit, four hours.
French	162	Teaching of French. Credit, two hours.
	261-262	Advanced French Grammar and Teaching Methods. Credit, two to six hours.
Geography and Geology	162	Geography and Methods for Lower Grades. Credit, three hours.
	165	Geography and Methods for Upper Grades. Credit, three hours.
German	161	Teaching of German. Credit, two hours.
History	161	Teaching of History in Elementary Schools. Credit, two hours.
	162	Teaching of History in Junior and Senior High Schools. Credit, two hours.
Home Economics	161	Teaching of Home Economics. Credit, two or three hours.
Industrial Arts	162	Teaching of Industrial Arts. Credit, three hours.
Journalism	162	Teaching of High School Journalism. Credit, two hours.
Latin	162	Teaching of Latin. Credit, two hours.
Mathematics and Astronomy	162	Teaching of Mathematics in the Junior High School. Credit, three hours.
	163	Teaching of Mathematics in the Senior High School. Credit, three hours.
Music	161	Teaching of Music in the Grades. Credit, one hour.
	163	Teaching of Music in the First Six Grades. Credit, three hours.
	164	Teaching of Music in the Junior and Senior High Schools. Credit, three hours.

Music— (Continued)	165	Teaching of Stringed Instruments. Credit, one hour.
	166	Teaching of Wind Instruments. Credit, one hour.
	167	Teaching of Class Piano. Credit, one hour.
Painting and Allied Arts	162	Teaching of Art for Early Childhood. Credit, one hour.
	164	Teaching of Art for Intermediate and Higher Grades. Credit, one hour.
	167	Teaching of Art. Credit, two hours.
Physical Welfare— Men	161	Teaching of Basketball Coaching. Credit, two hours.
	162	Teaching of Football Coaching. Credit, two hours.
	163	Teaching of Baseball Coaching. Credit, one hour.
	164	Teaching of Track Coaching. Credit, one hour.
Men and Women	160	Teaching of Physical Welfare. Credit, one hour.
	165	Teaching of Health. Credit, two hours.
Women	166	Theory and Teaching of Swimming. Credit, two hours.
	167-168	Teaching of Coaching. Credit, four hours.
Physics	161	Teaching of Physics. Credit, two hours.
Secretarial Studies	163	Teaching of Typewriting. Credit, two hours.
	165	Teaching of Shorthand. Credit, two hours.
	167	Teaching of Commercial Subjects. Credit, two hours.
Sociology	162	Teaching of Social Sciences. Credit, two hours.
Spanish	162	Teaching of Spanish. Credit, two hours.
Zoology	161	Teaching of Zoology. Credit, two hours.

#### STUDENT TEACHING AND OBSERVATION AND PARTICIPATION\*

**122. Observation and Participation in Intermediate Grades.** The course should be taken in conjunction with course 124. Credit, three hours. Sias and Supervising Critics.

**124. Student Teaching in Intermediate Grades.** Laboratory fee, \$4.00. Prerequisite, course 122 or with 122. Credit, four hours. Sias and Supervising Critics.

**127. Student Teaching in Special Education.** Laboratory fee, \$4.00. Prerequisite, course 122 or with 122. Credit, four hours. Sias, DeLand.

**133. Observation and Participation in Kindergarten-Primary Grades.**

\*A complete statement of prerequisites is on page 45.

The course should be taken in conjunction with course 135. Credit, three hours. Sias and Supervising Critics.

135. **Student Teaching in Kindergarten-Primary Grades.** Laboratory fee, \$4.00. Prerequisite, course 133 or with 133. Credit, four hours. Sias and Supervising Critics.

137. **Student Teaching in Kindergarten-Primary Grades.** Students specializing in kindergarten will do their student teaching in the first and second grades; those specializing in primary grades, in the kindergarten. Laboratory fee, \$2.00. Prerequisite, course 135. Credit, two hours. Sias and Supervising Critics.

172. **Advanced Student Teaching in Kindergarten-Primary Grades.** Laboratory fee, \$1.00 for each credit hour. Prerequisite, courses 135 and 137. Credit, two or four hours. Sias and Supervising Critics.

174. **Advanced Student Teaching in Intermediate Grades.** Laboratory fee, \$1.00 for each credit hour. Prerequisite, course 124. Credit, two or four hours. Sias and Supervising Critics.

176. **Observation and Participation in High School, Academic Subjects.** Credit, three hours. Sias.

177. **Student Teaching in High School, Academic Subjects.** Laboratory fee, \$4.00. Prerequisite, course 176 or with 176. Credit, four hours. Sias.

178. **Observation and Participation in Special Subjects.** Credit, three hours. Sias.

Majors in art and music will observe largely in the elementary field.

Majors in commerce and industrial arts will observe in the junior and senior high schools.

Majors in home economics will take the course in conjunction with course 179.

Majors in physical welfare will divide the observing time equally between the elementary grades and the high school.

179. **Student Teaching in Special Subjects.** The fields are art, commerce, home economics, industrial arts, music, and physical welfare. Laboratory fee, \$1.00 for each credit hour. Prerequisite, course 178 or with 178. Credit, two or four hours. Sias.

326. **Supervision of Student Teaching.** See History and Administration.

## ELECTRICAL ENGINEERING

1. **Engineering Orientation.** A consideration of engineering as a profession, a review of the engineering curriculum, the legal, social, political relations of the profession, and elements of success as an engineer. Credit, one hour. Atkinson.

101. **Elementary Radio.** Some of the subjects treated are: tuning the

simple receiving circuit, action of crystal detectors, a study of the construction and operation of the vacuum tube, amplifying speech or music, regenerative and heterodyne reception, and neutralization. Credit, two hours. Green.

**103. Radio Laboratory.** Designed to show the practical application of the principles discussed in course 101. The work includes the construction and operation of at least one set; measurement of wave length, calibration of a wave meter, etc. Laboratory fee, \$3.00. Credit, one hour. Green.

**106. Commercial Radio.** Attention is mainly given to the construction and operation of radio transmitters and receivers. The student is given practice in operating the university radiophone transmitter, and such problems as class A, B, and C amplification, percentage of modulation, impedance matching, antenna operation. Credit, two hours. Green.

**115. Engineering English.** The course is an application of the principles of English to the technical exposition of engineering processes, problems, and conditions. Credit, two hours. Atkinson.

**125. Acoustics.** The course includes a study of the fundamental principles of sound generation and wave propagation in free space and in enclosures, methods of sound measurements, acoustics of buildings with special emphasis on auditoriums, theaters for sound pictures, radio broadcasting studios and public address systems. Laboratory work. Prerequisite, physics 114 and 116. Credit, three hours. Green.

**131-132. Engineering Relations.** A course designed as a background of knowledge of power development and of some phases of managerial technique. Credit, two hours each semester. Atkinson.

**133. Illumination and Photometry.** The physics of light and radiation, various light sources, characteristics and efficiencies, principles and practice of photometry, and illumination engineering. Credit, two hours. Green.

**135. Electrical Transmission of Power.** Economic and electrical principles of transmission by electricity, line equations and calculations, hyperbolic solution of long lines, insulation and protection against transients, mechanical principles and practical line construction, calculation of induction and capacity contestants. Prerequisite, mathematics 118. Credit, three hours. Green.

**137. Electron Tubes in Industry.** The course treats of industrial applications of vacuum tubes such as the grid-controlled rectifier, stroboscopic applications, time delay relays, telemetering, voltage regulation, photo in electron tubes in counting, and traffic control. Alternates with course 135. Credit, three hours. Green.

**142. Heat Power Engineering.** Fuels, the elements of combustion; boilers, grates, stokers, and furnaces; pulverized coal, work and steam properties, the gas laws and gas cycles, steam cycles and steam engines, valves and governors, turbines and condensers, gas producers, gas and oil engines. Credit, three hours. Atkinson.

**143-144. Electrical Engineering.** A study of electrical and magnetic

circuits with emphasis on generator and motor characteristics, armature reaction and commutation, ratings, guarantees, and efficiencies, parallel operation, motor starting and control. In the second semester a study is made of a. c. circuits and e. m. f.'s, sine curve relations, power factors and regulation, motor-generators and synchronous converters, systems of distribution and lighting. Credit, three hours each semester. Atkinson.

**145-146. Electrical Engineering Laboratory.** Parallels course 143 and 144. Measurements will be made of the earth's magnetic field and other magnetic fields, induced electromotive forces, B-H curves and permeabilities, temperature co-efficients of resistance, electric meters, resistance measurements by bridge, potentiometer, e. m. f. and capacity measurements by different methods, ballistic methods for transients, insulation measurements, self and mutual induction, location of faults. Laboratory fee, \$1.00 for each credit hour. Credit, first semester, two hours; second semester, three hours. McClure and assistants.

**148. Electrical Designs.** Fundamental relations in electric, magnetic, and dielectric circuits, elements of armature characteristics and reaction, and armature windings, resistance and heating effects, design of continuous current generators, types of windings, reaction and designs of alternators, types and designs of transformers, elements and practical design of induction motors. Prerequisite, course 144. Credit, three hours. Green.

**201-202. Engineering Physics.** An advanced course in mechanics, treating such topics as statics, kinetics, kinematics, work and energy, friction, elasticity, hydrostatics, hydrokinetics, and wave motion. In the first semester a problem study period is arranged two hours a week to supplement and amplify the class work given three hours a week. Prerequisite, mathematics 118. Credit, first semester, four hours; second semester, three hours. Heil.

**203-204. Electrical Communication.** The treatment includes consideration of network theorems, resonance, the infinite line, filters, coupled circuits, attenuation, phantom circuits, reflection, transients, impedance matching, radiation of electromagnetic waves in such problems as field intensity measurements and antenna radiation resistance. Prerequisite, physics 114, 116, and mathematics 118. Credit, three hours each semester. Green.

**205-206. Electrical Communication Laboratory.** The course is designed to accompany course 203 and 204. Laboratory fee, \$4.00 each semester. Credit, one hour each semester. Green.

**211-212. Advanced Radio Laboratory.** Measurements are made on receiver performance, stage gain, transformer fidelity curves, measuring and matching impedances at high frequency, output of loud speakers, modulation percentage, field intensity measurements, work with the vacuum tube voltmeter and special problems of current interest in the field of radio. Laboratory fee, \$1.00 for each credit hour. Prerequisite, courses 101, 103 or 204, 206, and permission. Credit, one or two hours each semester. Green.

**215-216. Electrical Physics.** An advanced study of the theoretical elements in electrical and magnetic circuits and their application in the prin-

ciples of measurement. It includes also a study of the appliances and their method of use in electrical and magnetic measurement. Prerequisite, mathematics 118. Course 215 is not prerequisite for course 216. Credit, three hours each semester. McClure.

**219-220. Electricity and Magnetism.** An advanced course in electrical and magnetic circuits, in electrochemical properties of various substances, the calculation of magnetic fields of integration methods, the elementary study of transient currents through inductive and capacitive circuits. Prerequisite, courses 114, 116, and mathematics 118. Credit, three hours each semester. Heil.

**229. Engineering Thermodynamics.** A study of isothermal and adiabatic expansion of gases, Carnot and other cycles of heat engines, properties of steam, entropy, practical applications of thermodynamics, flow of fluids and application to turbines. Prerequisite, physics 114 and 116. Credit, three hours. McClure.

**239-240. General Thermodynamics.** Prerequisite, physics 114, 116, and mathematics 118. Credit, three hours each semester. McClure.

**243-244. Electrical Engineering.** An advanced technical study of the characteristics of a. c. circuits, the power of sinusoidal waves, principles of non-sinusoidal waves, circuits having resistance, inductance, capacitance, theory and application of mutual inductance, polyphase circuit theory and harmonics, series and parallel impedances, power factors. In the second semester the course considers synchronous generators, static transformers, synchronous motors, parallel operation of a. c. generators, synchronous converters, polyphase induction motors, single phase induction motors, series and repulsion motors. Prerequisite, courses 144, 145, and mathematics 118. Credit, three hours each semester. Atkinson.

**245. Electrical Engineering Laboratory.** Measurements of a. c. power, impedances and capacitances by different methods; also resonant effects and high frequency characteristics. Laboratory fee, \$2.00. Credit, two hours. McClure and assistants.

**246. Electrical Engineering Laboratory.** An advanced course in the alternating current laboratory for engineers. Predetermination of characteristics, transformer grouping and testing, induction motor tests by circle diagram, characteristics of synchronous motors and converters. Laboratory fee, \$3.00. Prerequisite, course 243. Credit, three hours. McClure and assistants.

**301-302. Advanced Acoustics.** A study of acoustics based on the fundamental dynamical theory of sound. The most general equations of sound propagation are developed and applications made to modern engineering practice. Prerequisite, physics 114, 116, and mathematics 215, 204. Credit, two hours each semester. Green.

**310. Electrical Station Design.** A study of the application of economic principles to the problems of electric generating station design, selection of apparatus, balancing initial and subsequent costs, interrelation of the mechan-

ical and electrical elements of design. Power plant visitation and reports. Credit, three hours. Atkinson.

**381. Seminar in Electrical Engineering.** Prerequisite, fifteen hours in electrical engineering. Credit, one hour each semester. The staff.

**395. Thesis.** Credit, six hours. The staff.

## ENGLISH

**1. English Composition.** This course places emphasis upon the grammatical elements of English composition. It is designed for students whose grades in the proficiency tests indicate a need for additional drill in spelling, punctuation, and sentence structure. Credit, four hours. The staff.

**3-4. English Composition.** A course in the fundamentals of composition, the structure of the paragraph, and the writing of exposition. Students who make unusually high grades in the proficiency tests will be excused from course 3 and allowed to enter course 4. Course 4 places emphasis on the study of models of argumentation, description, and narration. Credit, three hours each semester. The staff.

**10. Juvenile Literature.** A study of myths, fables, fairy stories, folklore, and one epic. Language work. Credit, two hours. Kahler.

**62. Teaching of Language in the Grades.** A study of the content and presentation of composition, grammar, and spelling in grades 3 to 8. Prerequisite, course 3. Credit, two hours. Apgar.

**101-102. Sophomore English Literature.** The course is devoted to a study of the works of eight or ten of the chief English authors from the beginnings of English Literature to the middle of the eighteenth century. Course 102 begins with the middle of the eighteenth century and continues the study to the present. Credit, three hours each semester. The staff.

**105. Advanced English Grammar.** An analysis of basic essentials in English grammar will be combined with a study of diction and usage. Word development and sentence structure will be studied for the purpose of securing grammatical soundness and rhetorical power. Credit, two hours. Lasher.

**121. History of American Literature.** Prerequisite, course 4. Credit, three hours. Kahler.

**125. American Poetry from 1815 to 1890.** Credit, three hours. Wilson.

**127. American Prose.** Selected material from Franklin, Irving, Cooper, Poe, Hawthorne, Emerson, Thoreau, Lowell. Credit, three hours. Slutz, Caskey.

**128. English Poetry from 1789 to 1890.** Credit, three hours. Wilson.

**130. English Essay of the Victorian Period.** Credit, three hours. Foster, Caskey.

**135. The Bible as Literature.** Credit, two hours. Foster.

**141. European Drama.** Readings in English of typical plays by Sophocles, Plautus, Marlowe, Jonson, Moliere, Farquhar, Goldsmith, Sheridan, and Ibsen. Prerequisite, course 4. Credit, two hours. Peckham.

**143-145. Comparative Literature.** A course introducing the student to the most significant productions of Greece, Rome, Italy, Spain, France, Germany, and England. Prerequisite, course 4. Credit, two hours each semester. Heidler.

**147. The Novel from Meredith to Galsworthy.** A study of some of the leading novels of Meredith, DeMorgan, Conrad, Hardy, James, and Galsworthy. Prerequisite, course 4. Credit, two hours. Slutz.

**150. The Short Story.** A historical and critical study of the short story. Lectures and extensive reading in short story classics. Prerequisite, course 4. Credit, two hours. McQuiston.

**153-154. Literary Appreciation.** Fundamental principles of literary criticism applied to poetical forms in the first semester and to prose forms in the second semester. Prerequisite, course 4. Credit, two hours each semester. Wilson.

**163. Teaching of Language in the Junior High School.** A study of the content and presentation of language work for grades 7, 8, and 9. Prerequisite, course 3. Credit, two hours. Apgar.

**165. Teaching of English in the Senior High School.** Emphasis is placed on the classics. Prerequisite, course 4. Credit, two hours. Wray.

**166. Teaching of English in the Senior High School.** Emphasis is placed on grammar and composition. Prerequisite, course 4. Credit, two hours. Wray.

**171. Advanced Exposition.** A course designed to offer practical experience in the writing of essays and reviews. Frequent writing by the student will be supplemented by the study of meritorious examples from experienced writers. Prerequisite, course 4. Credit, three hours. Heidler.

**174. Advanced Writing.** Recent writers of essays, poems, stories, and the shorter forms of drama will be read and discussed as a basis for creative and critical writing. Prerequisite, course 4. Credit, two hours. Slutz.

**175. Creative Writing.** The work will be adapted to the individual and instruction will be largely by conference. Prerequisite, course 4 and permission. Credit, two hours. Mackinnon.

**201-202. Shakespeare.** A study of the comedies, Roman historical plays, and tragedies. Prerequisite, twelve hours in English. Credit, three hours. McQuiston.

**204. English Drama from 1506 to 1612.** (Exclusive of Shakespeare.) Prerequisite, twelve hours in English. Credit, two hours. Apgar.

**206. Seventeenth Century Prose.** A study of the chief prose writers of the period. Readings in diaries, biography, essays, tracts, and history. Se-

lections from Raleigh, Bacon, Donne, Burton, Selden, Walton, Browne, and Pepys. Prerequisite, twelve hours in English. Credit, two hours. Bennett.

**213. English Prose Fiction.** A study of the development of the English novel through different periods. Prerequisite, twelve hours in English. Credit, three hours. Mackinnon.

**215-216. Eighteenth Century Literature.** The first semester presents the prose and poetry of the age of Pope; the second, from Johnson to the close of the century. Prerequisite, twelve hours in English. Credit, two hours each semester. Wilson.

**217. Eighteenth Century Romanticism.** The course will trace the beginnings of the movement with the Spenserians, Miltonic School, Chatterton, Ossian, the Gothic Romance and others. Prerequisite, twelve hours in English. Credit, two hours. Heidler.

**218. Nineteenth Century Romanticism.** The literary tendencies which underlie the work of major romanticists. Prerequisite, twelve hours in English. Credit, two hours. Heidler.

**221. Wordsworth and Coleridge.** A study of the principal poems of both poets, with a less intensive survey of the rest of their work. Lectures on the poetical and philosophical theories of the two poets. Prerequisite, twelve hours in English. Credit, two hours. McQuiston.

**224. Continental Novel.** Reading of European novels of the nineteenth century, chiefly, with emphasis on the Russian, French, German, and Scandinavian. Prerequisite, twelve hours in English. Credit, two hours. Lash.

**225. Contemporary American Poetry.** A study of some of the representative works of Robinson, Sandburg, Frost, Amy Lowell, Masters, Lindsay, and others. Prerequisite, twelve hours in English. Credit, two hours. Foster.

**226. Romanticism in American Literature.** Prerequisite, twelve hours in English. Credit, two hours. Foster.

**231-232. Modern American Literature.** A course dealing with American literature since 1870. Prerequisite, twelve hours in English. Credit, two hours each semester. McQuiston.

**234. Modern Drama.** The course alternates with course 236. Among the dramatists considered are: Pinero, Jones, Green, O'Neill, Wilde, Shaw, Barry, Galsworthy, Molnar, Crothers, Maeterlinck, Howard, Coward, Rostand, Milne, and Pirandello. Prerequisite, twelve hours in English. Credit, two hours. Peckham.

**236. Modern Drama.** The course alternates with course 234. Among the dramatists considered are: Barker, Synge, Fitch, Moody, Hauptmann, Sudermann, Brieux, Strindberg, Maugham, Drinkwater, Ervine, Walter, Schnitzler, d'Annunzio, and Gorki. Prerequisite, twelve hours in English. Credit, two hours. Peckham.

**240. Byron, Shelley, and Keats.** A study of the most important poems

and of the relation of the poets to their ages. Prerequisite, twelve hours in English. Credit, two hours. Peckham.

241. **Milton.** Prerequisite, twelve hours in English. Credit, two hours. Bennett.

242. **History of Literary Criticism.** A rapid study of the development of critical theories from ancient Greek times to the mid-nineteenth century. Prerequisite, twelve hours in English. Credit, two hours. Heidler.

245. **Tennyson and Browning.** A study of the two major Victorian poets, their backgrounds, and some of their most representative poems. Prerequisite, twelve hours in English. Credit, three hours. Peckham.

250. **Contemporary Literature.** An extensive reading course in the best books of the season. Prerequisite, twelve hours in English. Credit, two hours. Mackinnon.

252. **Recent British Poetry.** A study of the poetry of Kipling, Housman, Bridges, Hardy, Masfield, Noyes, Gibson, Davies, Brooke, and others. Prerequisite, twelve hours in English. Credit, two hours. Peckham.

254. **Literary Biography.** A study of some of the important literary biographies and a consideration of tendencies in current biographical literature. Prerequisite, twelve hours in English. Credit, two hours. Wilson.

258. **Middle English.** A course designed to acquaint students with narrative material in English literature of the middle ages (exclusive of Chaucer). Prerequisite, twelve hours in English. Credit, two hours. Wray.

259. **Ibsen.** A study of the poetic and the prose dramas. Prerequisite, twelve hours in English. Credit, two hours. Apgar.

270. **Spenser.** A study of the poems of Spenser with emphasis on *The Faerie Queene*. Prerequisite, twelve hours in English. Credit, two hours. Wray.

271. **Dante (in English).** Prerequisite, twelve hours in English. Credit, two hours. Wilson.

273. **Chaucer.** Prerequisite, twelve hours in English. Credit, two hours. Heidler.

275. **Anglo-Saxon.** An introductory course in the language and literature of early English. Prerequisite, twelve hours in English. Credit, three hours. McQuiston.

276. **Beowulf.** Reading and interpretation of the poem and consideration of its genesis, epic characteristics, and literary qualities. Prerequisite, course 275. Credit, three hours. McQuiston.

277. **Thesis Writing.** A course for graduate students in all departments with special attention to the form and organization of research papers in the field of interest. Prerequisite, twelve hours in English. Credit, one hour. Caskey.

291. **Seminar in English.** An introduction to literary research. Students will be given an introduction to bibliography and methods of research in literary history. Minor problems will be assigned. Prerequisite, eighteen hours in English. Credit, two hours. Caskey.

395. **Thesis.** Credit, four to eight hours. The staff.

## FINANCE

101. **Money and Credit.** The elementary concepts of money, credit and exchange, and a historical survey of monetary systems with special emphasis on price stabilization, monetary reform, and credit problems. Credit, three hours. Hanson, Gruchy.

106. **Banking Principles.** The theory of banking, the state and national banking systems, the Federal Reserve system, and a historical survey of banking in the United States. Prerequisite, course 101. Credit, three hours. Hanson, Gruchy.

121. **Business Finance.** The elements of business finance, the corporation, corporate securities, and financial plans. Credit, three hours. Armbruster, Hanson.

156. **Advanced Business Finance.** The sale of securities, distribution of income, expansions and reorganizations. Prerequisite, course 121. Credit, three hours. Armbruster, Hanson.

159. **Foreign Exchange.** The foreign exchanges, methods of financing foreign trade, and exchange problems. Prerequisite, course 101 and economics 102. Credit, three hours. Gruchy.

175. **Investment Principles.** A study of various types of securities; investment tests, investment policies, methods of security analysis, and sources of information. Prerequisite, course 121. Credit, two hours. Wolfe.

206. **Investment Analysis.** An analytical approach to the formulation of investment programs and the selection of specific securities. Prerequisite, course 175. Credit, two hours. Wolfe.

221. **Federal Reserve System.** The history of the Federal Reserve system, its structure and operation with particular emphasis on its relation to the money market and the problem of credit control. Prerequisite, course 106. Credit, two hours. Hanson.

242. **Foreign Banking Systems.** The central banking and commercial banking systems of the leading foreign countries and an examination of their banking theories and policies. Some attention will be paid to a comparison with American banking methods. Prerequisite, course 106. Credit, two hours. Gruchy.

252. **International Finance.** The financial relations between nations dealing with such problems as the international price level, foreign investments, war debts, reparations, and international banking. Prerequisite, course 106. Credit, three hours. Gruchy.

**281. Research in Finance.** Special studies in money, banking, or business finance. Prerequisite, economics 102, nine hours in finance, and permission. Credit, two to eight hours. The staff.

**391. Seminar in Finance.** Prerequisite, economics 102, nine hours in finance, and permission. Credit, two to ten hours. The staff.

**395. Thesis.** Credit, four to eight hours. The staff.

## FRENCH

(See Romance Languages)

## GEOGRAPHY AND GEOLOGY

**1-2. Principles of Geography.** A study of the general principles of physical, regional, and economic geography. Field trips. The second semester stresses general world geography. Credit, two hours each semester. Atwood.

**5. Commercial and Industrial Geography.** A study of the world's major products and their distribution and consumption. Students who have had marketing 15 are not admitted. Credit, three hours. Atwood.

**102. Economic and Regional Geography of North America.** The course will develop in detail the geography, natural resources, and the economic and industrial situations in the various regions of the continent. It presents a method for continental study. Prerequisite, courses 1, 162, or 165. Credit, three hours. Cooper.

**105. Economic and Regional Geography of South America.** See course 102 for description. Prerequisite, course 1 or 162. Credit, three hours. Cooper.

**108. Economic and Regional Geography of Europe.** See course 102 for description. Emphasis will be placed on geography in relation to the political situations. Prerequisite, courses 1, 150, 162, or 165. Credit, three hours. Atwood.

**112. Economic and Regional Geography of Asia and Its Islands.** See course 102 for description. Special emphasis is placed on Japan, China, the Philippines, India, and the Near East. Prerequisite, one course in geography. Credit, three hours. Atwood.

**115. Economic and Regional Geography of Africa and Australia.** See course 102 for description. Prerequisite, one course in geography. Credit, two hours. Atwood.

**119. Economic and Regional Geography of Middle America.** See course 102 for description. Special emphasis is placed on Mexico, Central America, and the West Indies. Credit, two hours. Cooper.

**125-126. Geology.** The first semester is devoted to physiographic geology; the second, to historical geology. Field trips. Credit, three hours each semester. Cooper.

**131. Geography of Ohio.** The geography of Ohio will be developed from the regional point of view and by means of the problem method. Prerequisite, one course in geography. Credit, two hours. Cooper.

**136. Conservation of Natural Resources.** A study of the vital problems of the conservation of soils, minerals, forests, and inland waters. Credit, two hours. Atwood.

**140. Geography of Agriculture.** The work emphasizes the influences of geographic environment on agricultural activities. Credit, three hours. Cooper.

**145. Geographic Influences in American History.** A course developed to show the close correlation between the geography and the history of the growth of our nation. Credit, three hours. Atwood.

**150. Geography and Environment.** Advanced principles of geography. A course in the aspects of geography which have to do with the adjustments of man to his natural environment. Credit, three hours. Cooper.

**155. Weather and Climate.** The atmosphere and its processes. Weather and forecasting, and the causes and distribution of climates. Prerequisite, six hours in geography. Credit, three hours. Cooper.

**159. Economic Geology.** A study of the materials of the earth's crust which are of service to mankind. Prerequisite, course 125, 126. Credit, three hours. Cooper.

**162. Geography and Methods for Lower Grades.** The course deals with general geography and the professionalized subject-matter for geography in the lower grades. Field trips. Credit, three hours. Atwood.

**165. Geography and Methods for Upper Grades.** The major interest of the course is in professionalized subject-matter for the upper grades and the junior and senior high school. Field trips. Credit, three hours. Cooper.

**170. Political Geography.** A study of the geography of boundary lines, the geography of colonial policies, and of geographic principles which control international relations. Prerequisite, six hours in the department. Credit, three hours. Atwood.

**215. Cartography and Graphics.** The elementary principles of map-drawing and graph-making. Prerequisite, twelve hours in the department. Credit, one or two hours. Cooper.

**381. Research in Geography.** Prerequisite, fifteen hours in geography. Credit, one or two hours. Cooper.

## GERMAN

**1-2. Beginning German.** The course includes instruction in the fundamental grammatical principles, drill in pronunciation, conversation, and the reading of prose. Credit, four hours each semester. Hess, Matthews, Mueller.

**101-102. Intermediate German.** The course includes the study of various short poems and stories of literary excellence, grammatical review, and work in oral and written composition. The drama, especially *Wilhelm Tell*, will be included during the second semester. Prerequisite, course 2 or two years of high school German. Credit, four hours each semester. Hess, Matthews, Mueller.

**105-106. Scientific German.** A reading course designed to give the student familiarity with German scientific terms. Prerequisite, course 102 or 101 with a grade of A or B. Credit, two hours each semester. Mueller.

**109-110. German Grammar and Composition.** Prerequisite, course 102 or three years of high school German. Credit, two hours each semester. Hess.

**121-122. German Prose Readings.** Literary, historical, and scientific essays will be read. Prerequisite, course 102, course 101 with a grade of A, or three years of high school German. Credit, two hours each semester. Hess.

**161. Teaching of German.** Prerequisite, permission. Credit, two hours. Hess.

**201-202. Survey of German Literature.** Prerequisite, course 102. Credit, three hours each semester. Hess.

**211-212. Modern German Drama.** A study of the German drama of the nineteenth century and the reading of the more important plays connected with the various movements. Prerequisite, course 102. Credit, three hours each semester. Hess.

**213. Classical German Drama.** Plays of Lessing, Goethe, and Schiller will be studied in relation to German classicism. Prerequisite, course 102. Credit, three hours. Hess.

**215. Goethe's Faust.** A detailed study of Goethe's greatest contribution to modern thought and life. Prerequisite, course 213. Credit, three hours. Hess.

**219-220. The German Short Story.** A rapid reading course designed to acquaint the student with this phase of modern German literature. Prerequisite, course 102. Credit, two hours each semester. Matthews.

**231-232. Writing and Speaking German.** A course in oral and written composition for students desiring to teach or speak German. Prerequisite, course 110. Credit, two hours each semester. Mueller.

**301. History of the German Language.** An introduction to the study of Germanic philology. Prerequisite, ten hours in German beyond course 102. Credit, two hours. Hess, Mueller.

**310. Gothic.** A study of the phonetics, morphology, and syntax of the Gothic language, accompanied by the reading and translating of portions of *Ulfilas' Gothic Bible*. Prerequisite, ten hours in German beyond course 102. Credit, three hours. Hess, Mueller.

**395. Thesis.** Credit, four hours. The staff.

## GOVERNMENT

**1-2. American Government.** A study of the American political system, including national, state, and local governments. Credit, three hours each semester. Smith.

**101-102. Comparative Government.** A comparison of the American and European systems of government, including organization, procedure, popular representation, and recent developments. Credit, three hours each semester. Smith.

**202. Constitutional Law.** Prerequisite, six hours in government or history. Credit, two hours. Hoover.

**203. Municipal Government.** A study of municipal organization and administration in the United States. Prerequisite, six hours in government. Credit, two hours. Smith.

**205. American Political Parties.** The origin and growth of national parties, influence of economic and social conditions on party policy, and recent party developments. Prerequisite, six hours in government. Credit, three hours. Hoover.

**210. Current Political Problems.** A study of problems related to national, state, and local governments. Prerequisite, six hours in government or history. Credit, two hours. Smith.

**216. International Relations.** A study of the principles and political problems involved in the foreign policies and international relations of the nations of the world. Prerequisite, six hours in government. Credit, two hours. Smith.

**223-224. International Law.** Prerequisite, six hours in government. Credit, two hours each semester. Hoover.

**227. International Cooperation and Organization.** A study of the origin and work of the League of Nations, the World Court, the International Labor Organization, the Universal Postal Union, the International Bureau of Telecommunication Union, the Institute of Intellectual Cooperation, and similar organizations. Prerequisite, six hours in government or history. Credit, three hours. Volwiler.

**231-232. Comparative European Governments.** Emphasis will be placed on the basic principles on which the principal European governments function. Prerequisite, six hours in government or history. Credit, three hours each semester. Jones.

**241. American Foreign Policy.** The course traces the history of American foreign relations since the establishment of independence. An introduction to the practices of diplomacy, pertaining especially to the working organization of the Department of State. Prerequisite, six hours in government or history. Credit, three hours. Morrison.

**243. American Political Theory.** A study of European beginnings, early political theory in the United States, and development of political

thought to the present. Prerequisite, six hours in government. Credit, two hours. Smith.

**301. Problems in Government.** Prerequisite, fifteen hours in government and history. Credit, one to three hours. The staff.

**391. Seminar in Government.** Prerequisite, fifteen hours in government and history. Credit, one to three hours. The staff.

**395. Thesis.** Credit, four to eight hours. the staff.

## GREEK

(See Classical Languages)

## HEALTH

(See Physical Welfare)

## HISTORY

**1-2. A Survey of European Civilization.** A study of the development of European civilization from the decline of the Roman Empire to the present time with a consideration of its economic, social, intellectual, cultural, and political phases. Credit, three hours each semester. Harris, Hoover, Volwiler, Jones.

**10. History of Greece.** Freshmen are admitted to the course by permission. Credit, two hours. Brokaw.

**11. History of Rome.** Freshmen are admitted to the course by permission. Credit, two hours. Brokaw.

**101. English History to 1485.** Credit, two hours. Harris.

**102. English History since 1485.** Credit, two hours. Harris.

**110. History of United States to 1861.** Credit, three hours. Hoover, Morrison, Field.

**111. History of United States since 1861.** Credit, three hours. Hoover, Morrison, Field.

**115. The Old South.** The South to 1860. A study of the plantation regime in the United States. Credit, three hours. Morrison.

**116. The New South.** The development of the South since 1861, with emphasis on life and labor. Credit, three hours. Morrison.

**120. The United States Since the World War.** Credit, three hours. Morrison.

**132. History of Ohio.** Credit, two hours. Hoover.

**141-142. Hispanic America.** An introductory course in Hispanic American history. Credit, three hours. Johnston.

161. Teaching of History in Elementary Schools. Credit, two hours. Smith.

162. Teaching of History and Civics in Junior and Senior High Schools. Credit, two hours. Smith.

203. English History during the Tudor Period. Prerequisite, six hours in history. Credit, two hours. Jones.

204. English History during the Stuart Period. Prerequisite, six hours in history. Credit, two hours. Jones.

211. French Revolution and Napoleonic Era, 1789-1815. Prerequisite, six hours in history. Credit, three hours. Jones.

212. Europe in the Nineteenth Century. A study of the development of England, France, Germany, Italy, and Russia, and their international relations. Prerequisite, six hours in history. Credit, three hours. Jones.

221. The World War, 1914-1918. Prerequisite, six hours in history. Credit, two hours. Harris.

222. Europe since 1918. Prerequisite, six hours in history. Credit, two hours. Harris.

230. History of Russia. Prerequisite, six hours in history. Credit, three hours. Harris.

233. History of Civilization. Beginning with the theories of the origin of the earth and of man, this course traces the evolution of culture from savagery to barbarism; from barbarism, to the earliest civilization of Egypt, the Tigris-Euphrates Valley and the Aegean; and thence to the present day. Prerequisite, six hours in history. Credit, three hours. Harris.

235. History of Canada. The course includes a study of the government of Canada and the relations of Canada with the mother country and with the United States. Prerequisite, six hours in history. Credit, two hours. Hoover.

241. The British Empire. A study of the evolution of the British Empire, with special emphasis on recent imperial problems. Prerequisite, six hours in history. Credit, three hours. Harris.

245. European Imperialism. Prerequisite, six hours in history. Credit, three hours. Volwiler.

249. Current International Problems. An introduction to the study of international relations, with the emphasis on world problems of current interest. Prerequisite, six hours in history. Credit, two hours. Volwiler.

250. Provincial America, 1688-1763. The course treats of the local situation in the colonies with little attention to their position in the British Empire. Prerequisite, six hours in history. Credit, three hours. Morrison.

251. Sectional Controversy, 1829-1850. A study of the slavery controversy and the reform movements in the nation as a whole. Prerequisite, six hours in history. Credit, three hours. Morrison.

**253. The United States, 1850-1877.** A study of the changes which took place in national life as political control shifted from agriculture to industry. The course treats only incidentally of the Civil War. Prerequisite, six hours in history. Credit, three hours. Morrison.

**255. Constitutional History.** A study of the making and ratifying of the Constitution of the United States. Prerequisite, six hours in history or government. Credit, two hours. Hoover.

**256. The Emergence of Modern America, 1877-1900.** Social and intellectual conditions, political changes, agrarian unrest, rise of large corporations, railroad building, development of government regulation of big business, tariff policies during the Harrison-Cleveland era, the Spanish-American War, and the drift to imperialism and world power. Prerequisite, six hours in history. Credit, three hours. Volwiler.

**257. The History of the Westward Movement.** The westward movement in the development of the United States; the migration from the Atlantic states to the Mississippi Valley and to the Trans-Mississippi West; the contributions of the West to our political, social, and economic life. Prerequisite, six hours in history. Credit, two hours. Smith.

**258. American Statesmen.** A study of the lives of leading American statesmen. Prerequisite, six hours in history. Credit, two hours. Hoover.

**301. Historiography.** Bibliographical guides, historical periodicals, schools of historical interpretation, the history of history, representative historians and their writings, introduction to the technique of historical research and writing. Prerequisite, fifteen hours in history and government. Credit, two hours. Volwiler.

**303. Problems in History.** Intensive individual work either in research or in systematic reading along the lines of a student's special interest under the supervision of a member of the staff. Prerequisite, fifteen hours in history, government, and permission. Credit, one to three hours. The staff.

**391. Seminar in History.** Essays based upon original research with group discussion and criticism. Prerequisite, fifteen hours in history, government, and permission. Credit, one to three hours. The staff.

**395. Thesis.** Credit, four to eight hours. The staff.

## HOME ECONOMICS

### CLOTHING AND TEXTILES

**1. Clothing Selection and Construction.** A study of essential factors entering into a wise choice of clothing. Problems in constructing simple garments. One lecture and four laboratory hours a week. Laboratory fee, \$3.00. Credit, three hours. Morse.

**110. Textiles and Consumer Buying.** A study of textiles as to fibre, manufacture, use, and desirability. Hand loom weaving problem. Two lec-

tures and two laboratory hours a week. Laboratory fee, \$3.00. Credit, three hours. Morse.

**211. Economics of Clothing.** A study of clothing of today relative to market quality, cost, creative factors, fashion trend legislation. Construction of garments from wool and silk. Two lectures and two laboratory hours a week. Prerequisite, courses 1, 110. Credit, three hours. Morse.

**212. Creative Textile Problems.** Students will be given opportunity to develop original ideas in textiles and garment designs and decorations. Four laboratory hours a week. Prerequisite, course 110 and three hours in art. Credit, two to four hours. Morse.

**215. History of Costume and of Textiles.** Brief study of costume and of textiles through the ages with laboratory coordination in stage costumes and figurine dressing. One lecture and two laboratory hours a week. Prerequisite, courses 1, 110. Credit, two hours. Morse.

**216. Clothing Design and Construction.** Principles of design worked out in material. Garments draped on dress forms. Construction problem in tailoring. One lecture and four laboratory hours a week. Laboratory fee, \$3.00. Prerequisite, courses 1, 110. Credit, three hours. Morse.

**218. Textile Analysis.** Intensive examination of fibres and fabrics. One lecture and four laboratory hours a week. Prerequisite, course 110 and three semester hours in chemistry. Credit, three hours. Morse.

**395. Thesis.** Credit, four to eight hours. Phillips, Morse.

#### FAMILY RELATIONSHIPS AND CHILD DEVELOPMENT

**271-272. Child Development.** A study of the development of the child with reference to the problems of parents. The first semester deals with the physiological development and the physical care and health habits of the child. The second semester deals with the child's mental health, social and emotional development, and with parental techniques for the guidance of young children. One lecture and two hours nursery school observation. Prerequisite, courses 21 or 22, 1 or 110, or six hours in psychology. Credit, two hours each semester. Justin.

**273. Family Relationships.** A study of the functioning of the successful family, including a consideration of the social and emotional problems of the home. Prerequisite, course 272, three hours in sociology, and three hours in psychology. Credit, three hours. Justin.

**377. Special Problems in Family Relationships.** An intensive study of a problem in family relationships. Prerequisite, courses 272, 273. Credit, two hours. Justin.

**379. Special Problems in Child Development.** An intensive study of a phase of child development or a problem in child guidance. The nursery school may be used as a laboratory if desired. Prerequisite, course 272. Credit, two hours. Justin, Snyder.

**395. Thesis.** Credit, four to eight hours. Phillips, Justin.

## FOODS AND NUTRITION

**21. Foods and Nutrition.** Energy, protein, mineral, and vitamine requirements of body are considered. Consideration of cost in relation to food value. Planning, preparation, and serving of well balanced meals. Social customs in relation to serving food. One lecture and four laboratory hours a week. Laboratory fee, \$3.00. Credit, three hours. Patterson.

**22. Economics of Foods.** A study of food markets and marketing problems from the standpoint of the consumer. Planning and preparing meals from a standpoint of various budget levels. Study of time element, amount of work, and equipment involved in food preparation. One lecture and four laboratory hours a week. Laboratory fee, \$3.00. Credit, three hours. Patterson.

**222. Experimental Cookery.** Methods of cookery are determined through experimentation, investigation, and research. Individual or group work on selected topics. One lecture and four laboratory hours a week. Laboratory fee, \$3.00. Prerequisite, course 22 and three semester hours in chemistry. Credit, three hours. Patterson.

**225. Dietetics.** A study of the fundamental principles of nutrition with special emphasis upon the nutritive value of foods and nutritive requirements of man. The course includes practical application of these principles to the feeding of individuals and families under varying physiological, economic, and social conditions. Two lectures and two laboratory hours a week. Laboratory fee, \$3.00. Prerequisite, course 22 and three semester hours in chemistry. Credit, three hours. Phillips.

**227. Quantity Cookery.** Institutional and commercial food problems are considered. Field work in college dormitories, cafeterias, and cooperating institutions. One lecture and four laboratory hours a week. Prerequisite, courses 21 or 22 and 222 or 225. Credit, three hours. Phillips, Swanson.

**228. Readings in Food and Nutrition.** Reports, discussions and review of scientific literature. Prerequisite, course 225. Credit, three hours. Phillips.

**229. Nutrition in Disease.** The course treats of the adaptation of diet to disorders of nutrition; the cause, effects, and extent of malnutrition. Opportunity will be given for practical work in these fields. Two lectures and two laboratory hours a week. Laboratory fee, \$2.00. Prerequisite, course 225. Credit, two hours. Phillips.

**241. Nutrition Work with Children.** Relation of nutrition to growth and development of children. Methods for improving nutrition through the school and other organizations. Prerequisite, course 225. Credit, two hours. Phillips.

**242. Institutional Buying.** Problems in the planning and equipment of institutions. Study of floor plans with relation to needs of various services. Current procedures in large quantity food purchasing. Prerequisite, courses 21 or 22 and 32. Credit, three hours. Phillips, Swanson.

**248. Institutional Management.** Organization and management in resi-

dence halls, lunch rooms, hotels, and hospital dietary departments. Problems in employment and personnel, financial statements, operation expenses, food and budgetary control. Observation in various types of institutions. Prerequisite, courses 21 or 22 and 32 or 253. Credit, three hours. Phillips, Swanson.

**249. Special Problems in Chemistry of Foods and Nutrition.** A study of a selected problem in the chemistry of food and nutrition. A laboratory course in problems of physical and chemical properties of food materials and the effect of cooking processes on the nutritive value of foods. Prerequisite, course 225. Credit, three hours. Phillips.

**395. Thesis.** Credit, four to eight hours. Phillips, Patterson.

### GENERAL HOME ECONOMICS

**51. Orientation Course in Home Economics.** A critical study of the history of home economics; the worthwhileness of home economics in education for personal, home and family living, homemaking, and vocational training; the place of home economics in the present organization of the school curriculum. Credit, two hours. Phillips, assisted by specialists in each field.

**161. Teaching of Home Economics.** Prerequisite, courses 1 or 110, 21 or 22, 251 and 253, or 271 or 272. Credit, two or three hours. Patterson.

**250. Special Problems in the Teaching of Home Economics.** Opportunity for individual selection of problems. Prerequisite, course 161. Credit, three hours. Patterson.

**251. Home Management.** A study of the economic use of time, energy, and money as involved in the successful functioning of a home. Prerequisite, courses 21 or 22 and 32. Credit, two hours. Justin.

**253. Home Management Laboratory.** The half semester's residence in the home management house provides managerial experience in the use of time, energy, and money in the modern household. Prerequisite, courses 21 or 22 and 32. Credit, two hours. Justin.

**254. Home Economics in Adult Education.** An analysis of the methods of presenting home economics subject matter to adult education groups, of the organization procedures and activities involved. Prerequisite, course 251 and 253, 271 or 272, and ten semester hours in education or psychology. Credit, three hours. Justin.

**256. Economics of Consumption.** This course will include a study of consumer buying problems; family income and expenditure; expenditures as measures of standards of living, consumer demand; and the effects of consumption on the economic welfare of society. Opportunity will be given for special study in the field of major interest and for the application of the results of these studies to practical consumer problems. Prerequisite, courses 21 or 22, 1 or 110, or six hours in economics and marketing. Credit, three hours. Phillips.

**258. Special Problems in Household Economics.** Special problems for individual investigation in standards of living, family expenditures, structure

of the rental market, and methods of increasing efficiency of retail buying. Prerequisite, course 256. Credit, three hours. Phillips.

**351. Special Problems in Home Economics.** Students select special problems for individual research under the supervision of a member of the staff. The work of the course will be devoted to the planning, executing, and testing of results of individual problems of research. Prerequisite, eighteen hours in the department. Credit, three to eight hours. The staff.

**352. Special Problems in Home Management.** Opportunity for individual study of managerial ability related to home management situations. Prerequisite, courses 251, 253. Credit, two or three hours. Justin.

**395. Thesis.** Credit, four to eight hours. The staff.

### THE HOUSE AND ITS EQUIPMENT

**32. Household Equipment.** A study of the selection, cost, and care of household equipment. Minimum standards, grades, and tests for household equipment are studied. Two lectures and two laboratory hours a week. Credit, three hours. Phillips.

**231. Home Planning.** The house and its furnishings are studied from a historical, artistic, scientific, and practical standpoint. The course includes problems in the selection and use of furniture, textiles, and accessories to fit the economic and social needs of the home. Field trips. Two lectures and two laboratory hours a week. Laboratory fee, \$3.00. Prerequisite, course 110 and five hours in art. Credit, three hours. Snyder.

**234. Household Engineering.** A study of household operating and equipment problems. A critical analysis of the use of equipment to establish standards for effective use. The course will also include a survey of agencies offering services in the field of home-making. Specialists in related sciences and manufacturing fields will cooperate. Prerequisite, courses 21 or 22 and 32. Credit, three hours. Phillips.

**238. Housing and Community Welfare.** Brief history of the housing movement. Family and community living conditions as effected by housing regulation and legislation; city planning and zoning; trends in American housing and housing abroad. Prerequisite, courses 231, 251, 253. Credit, three hours. Morse.

**395. Thesis.** Credit, four to eight hours. Phillips.

### INDUSTRIAL ARTS

**1-2. Elementary Woodworking.** A course in elementary woodwork. The students construct projects from blue prints and job sheets. One lecture and four laboratory hours a week. Laboratory fee, \$3.00 each semester. Credit, three hours each semester. Grones.

**6. Wood Turning.** Instruction is given in the care of lathes and tools.

The work consists of exercises in wood turning. Six laboratory hours a week. Laboratory fee, \$2.00. Credit, two hours. Grones.

**7. Sheet Metal.** The work of the course deals with the cutting, forming, making of seams, soldering and riveting of materials used in sheet metal construction. The development of patterns and knowledge of the industry is an essential part of the work. One lecture and three laboratory hours a week. Laboratory fee, \$2.00. Credit, two hours. McLaughlin.

**8. General Shop.** The following shop activities will be presented: electricity, art metal, cold metal, and hand craft. One lecture and three laboratory hours a week. Laboratory fee, \$2.00. Credit, two hours. McLaughlin.

**105. Wood Finishing.** A study is made of the different wood finishes and the application is carried out in the laboratory. The characteristics, physical qualities and appearances of the common woods are studied. Two lectures and two laboratory hours a week. Credit, three hours. McLaughlin.

**109. Cabinet Making.** The work will consist of paneling, veneering, drawer construction, framing, and door fitting. The student will work from blue prints or drawings. As the student advances, a difficult piece of cabinet work will be constructed. Nine laboratory hours a week. Laboratory fee, \$3.00 each semester. Credit, three hours each semester. Grones.

**116. Constructive Design.** The object of the course is to give the student practice in free-hand sketching. Originality is stressed in the designing and studying of projects. Also a study of the outstanding periods and master designers is made. Credit, two hours. Grones.

**117. Shop and Machine Maintenance.** The course presents some problems such as circular, band and hand saw fitting, band saw brazing and grinding, general repair, sharpening, lubrication, and adjustment of woodworking equipment. Credit, two hours. Grones.

**121. Pattern, Forge, and Foundry Work.** The work of the course consists of the making of wooden patterns, the shaping of iron by means of forging, and the making of brass and aluminum castings. Four laboratory hours a week. Laboratory fee, \$2.00. Credit, two hours. Kinison.

**122. Home Mechanics.** A practical course for girls only in the care, adjustment, and repair of home equipment and devices, as well as information about procedure and practices that are effective in the operation and management of the modern home. One lecture and two laboratory hours a week. Credit, one hour. McLaughlin.

**123. Automobile Mechanics.** A study of the various parts and names of the automobile. Special attention given to repair, adjustment, and maintenance. One lecture and three laboratory hours a week. Laboratory fee, \$2.00. Credit, two hours. McLaughlin.

**124. Machine Shop.** The work includes chipping, filing, straight turning, taper turning, eccentric turning, chuck turning, face-plate turning, inside turning, thread cutting, polishing, shaper work, grinding, and the care of

lathes, shafting, and belting. Four to six laboratory hours a week. Laboratory fee, \$2.00. Credit, two hours. McLaughlin.

**127. Shop Practice.** Instruction and supervision of shop practice, handling of supplies, materials, and projects. Prerequisite, permission. Credit, two or three hours. McLaughlin.

**141-142. Printing.** The course includes a study of the composition and nomenclature of type, point system, proof reading, grammatical rules, and a short history of printing. Laboratory work consists of learning the case, composition of straight matter and headings, distribution, pulling proofs, correcting proofs, imposition, and platen press work. The second semester includes the study of papers and paper making, care of stock, harmony and proportion, linoleum cuts, and setting job composition. One lecture and four or five laboratory hours a week. Laboratory fee for first semester, \$3.00; for second semester, \$2.00. Credit, first semester, three hours; second semester, two hours. Kinison.

**143. Printing.** All work will be done in The Lawhead Press. Work will consist of a study of type designs, engraving, decorations, press work, and practical problems in printing. Six laboratory hours a week. Laboratory fee, \$3.00. Credit, three hours. Good.

**145. Printing (Journalism).** The course gives students of journalism an opportunity to handle type, learn the case, and do some printing on the platen press. Straight matter and headings will make up the exercises. Laboratory fee, \$2.00. Credit, two hours. Kinison, Ray.

**146. Printing (Advertising).** In addition to learning the case and doing some press work, the students will learn about type families, the point system, harmony and proportion. Laboratory fee, \$2.00. Credit, two hours. Kinison.

**162. Teaching of Industrial Arts.** Credit, three hours. McLaughlin.

**212. Shop Equipment.** The course deals with the study of purchasing of equipment, planning of arrangement, importance of various machines, purchase of supplies and distribution. Prerequisite, courses 2, 7, 109. Credit, two hours. McLaughlin.

**226. History of Industrial and Vocational Education.** A study of the history and methods of organization of industrial and vocational education from the earliest introduction down to the present, and current tendencies. Special study is made of the Smith-Hughes law and its administration. Prerequisite, course 162 and three hours in school administration. Credit, three hours. McLaughlin.

**244. Printing.** General routine and acquaintance with the work as carried on in an up-to-date job printing shop. Laboratory fee, \$3.00. Prerequisite, course 143. Credit, three hours. Good.

**350. Advanced Work in Wood, Metal, or Printing.** A course of advanced laboratory work in wood, metal, or printing. A study of industrial practice in the field selected by the student. Prerequisite, eight hours in the selected field. Credit, three hours. The staff.

355. **Special Problems in General Shop.** A theory course dealing with the organization, equipment, and management of the general shop as related to the small high school. Prerequisite, twelve hours in the department. Credit, three hours. The staff.

357. **Curriculum Building in Industrial Arts.** A study of curriculum building with special reference to integrating the work of industrial arts with the other fields throughout the school program. Credit, three hours. The staff.

381. **Research in Industrial Arts.** Prerequisite, fifteen hours in the department. Credit, three to six hours. The staff.

395. **Thesis.** Credit, four to eight hours. The staff.

## ITALIAN

(See Romance Languages)

## JOURNALISM

4-5. **Newspaper Reading.** The course will deal with the organization of the newspaper from the reader's point of view. The relationship of the newspaper to social, economic, religious, and educational problems will be brought out. Leading newspapers of the country will be analyzed. Credit, one hour each semester. Lasher.

102. **News Writing.** The course will deal with the simple news story, stressing the lead. Particular attention will be paid to diction and usage and to the fundamentals of sentence structure. Credit, two hours. Lasher.

105. **The Newspaper.** A study of the character, the purposes, and the general organization of the newspaper, with attention to its origin, development, and present status as a quasi-public institution. Prerequisite, English 4. Credit, two hours. Lasher.

108. **Newspaper Reporting.** Instruction in methods of gathering material and writing news narratives, interviews, reports of speeches, follow-up and re-write stories, human interest stories, and specialized news, followed by practical work covering assignments and preparing copy. Prerequisite, course 105. Credit, three hours. Lasher, Ray.

111-112. **Reporting Practice.** Students will be assigned to general reporting on *The Athens Messenger*. In the second semester a student will be permitted as far as possible to specialize in the particular field of reporting he desires. Prerequisite, course 108 and permission. Credit, two or three hours each semester. Smiley.

113. **Reporting Practice.** Prerequisite, course 112. Credit, two hours. Smiley.

116. **Sport Writing and Editing.** The course will deal with the technique of gathering, writing, and editing news and comment concerning all kinds of sports. Attention will be paid to the promotion of community sports. Credit, two hours. Dunn.

**118. Newspaper Editing.** The course will deal with the work and responsibility of the editor. A consideration of newspaper style, libel, syndicate and news association services, type and mechanical processes. Prerequisite, course 108. Credit, three hours. Lasher, Ray.

**121-122. Editing Practice.** Students will be assigned to copyreading on *The Athens Messenger*. Prerequisite, course 118 and permission. Credit, two or three hours each semester. Harris.

**130. Book Reviewing.** Following a study of present day literary criticism, students will write reviews dealing with various types of literature. Prerequisite, English 4. Credit, two hours. Lasher.

**133. The Writing of Criticism.** The fundamental principles of criticism will be studied and applied to concrete situations in reviewing musical, art, theatrical, and photoplay events. Credit, two hours. Lasher.

**140. The Community Newspaper.** The course stresses phases of the editorial and business management of the newspaper published in a small community. Problems include: news treatment, editorial comment, the relation of the newspaper to school, church, business, and community life; circulation promotion, the securing and preparation of advertising and job printing, mechanical equipment. Prerequisite, course 105. Credit, three hours. Lasher, Ray.

**144. Journalism Ethics and Newspaper Law.** The case method will be applied to such problems as news suppression, publicity, propaganda, and constructive handling of news dealing with crime, religion, politics, capital, labor, and general social conditions. Laws affecting publications will be studied. Credit, two hours. Lasher.

**145. Printing (Journalism).** See Industrial Arts.

**151-152. Contemporary Thought and Developments.** Important contributions being made in the fields of art, science, music, education, drama, medicine, literature, government, public health, philosophy, economics, psychology, finance, engineering, law, religion, and sociology will be discussed by members of the faculty from the departments. Material will be presented as a background for newspaper writers and readers. Credit, three hours each semester. Lasher and others.

**155. High School Publications.** Editorial supervision and business management problems of high school newspapers, yearbooks, magazines, and handbooks. Credit, two hours. Lasher.

**162. Teaching of High School Journalism.** For those who wish to use the journalism motive in English composition classes, those who may direct the editing of high school publications, or those who plan to teach journalism. Fundamentals of newspaper writing and editing. Attention to preparation of school publicity copy for newspapers. Credit, two hours. Lasher.

**171. The Newspaper as a Business Institution.** The course will deal with the organization of the newspaper, emphasizing the various functions and the cooperative responsibilities of business, editorial, and mechanical departments. Credit, two hours. Ray.

173. **Newspaper Circulation Practice.** Training in the technique of the Audit Bureau of Circulation system of record keeping. Practical work in circulation, department organization, promotion methods, carrier management, mailing room and transportation supervision at *The Athens Messenger*. Prerequisite, course 171 or 243. Credit, two or three hours. Ray.

174. **Newspaper Advertising Practice.** Laboratory work at *The Athens Messenger* in the fields of local display, national, and general display. Prerequisite, course 171 or 243, and 247. Credit, two or three hours. Ray.

175. **Newspaper Office and Plant Management Practice.** The course will include a laboratory study of the administration of the accounting and mechanical departments of the newspaper. The publisher of *The Athens Messenger* and the instructor in the business courses in the department will supervise. Prerequisite, courses 173, 174, and accounting 81. Credit, two hours. Ray.

202. **Advanced Reporting.** Experience at *The Athens Messenger* in some specialized field. Credit, two hours. Smiley.

208. **Reporting of Public Affairs.** The course will deal with those facts about the courts, legal procedure, civic agencies, government, politics, and business organizations fundamental for the intelligent reporting of public affairs in a community. Students will be brought in contact with local officials and organizations. Credit, two hours. Lasher.

221. **Feature and Magazine Writing.** A study of newspaper, magazine, and syndicate feature stories will be followed by practice in writing different types. Some of the problems considered will be: how to discover desirable material, how to secure suitable illustrations, how to bring out the dominant interest, how to prepare and sell manuscripts. Credit, three hours. Lasher.

222. **Advanced Feature and Magazine Writing.** Students will be permitted to select their type of material. Writing will be done with the definite idea of publication, and a study will be made of the most suitable markets for publication. A conference course. Credit, two hours. Lasher.

225. **The Editorial Page.** A study of the editorial page as to purpose, material, style, tone, and effect. Training will be given in the analysis of news and in writing news interpretation, news comment, controversial and generalized editorials, and the editorial paragraph. Prerequisite, English 4. Credit, three hours. Lasher.

243. **Newspaper Management.** The course will deal with problems of business organization, circulation, the handling of local, national, and classified advertising, office and composing room management, newspaper accounting, business promotion, financing the newspaper, and editorial policies. Credit, three hours. Ray.

247. **Newspaper Advertising.** The course will consist of a study of local display, classified, and legal advertising. Sales promotion will receive attention. Prerequisite, advertising 155. Credit, two hours. Ray.

**250. Newspaper National Advertising.** Problems encountered and methods employed in the handling, solicitation, merchandising, and promotion of the national advertising department of a newspaper. Agency contact and the direction of the national advertising department within the newspaper organization. Prerequisite, course 171 or 243. Credit, two hours. Ray.

## LATIN

(See Classical Languages)

## MARKETING

**15. Economic Geography.** The course deals by countries with the production, distribution, and consumption of the world's products. Credit, three hours. Fenzel.

**155. Marketing Principles.** The principles, methods, and policies of marketing consumers' goods and industrial goods. Credit, three hours. Paynter, Krauskopf.

**158. Marketing Problems.** A consideration by the case method of the problems facing the producer and the middleman. Prerequisite, course 155. Credit, three hours. Paynter.

**171. Principles of Personal Selling.** The fundamentals of personal salesmanship and the problems involved in the relationship of the personal salesman to the sales organization. Prerequisite, course 155. Credit, two hours. Krauskopf.

**176. Sales Management.** Problems in the management of the sales organization and in some of the immediately related fields of management. Prerequisite, course 155. Credit, three hours. Krauskopf.

**191. Agricultural Marketing.** The marketing of the principal farm products with emphasis on cooperative marketing. Prerequisite, course 155. Credit, two hours. Paynter.

**201. Retailing.** The organization and operation of retail institutions. Prerequisite, course 155 and economics 102. Credit, three hours. Paynter.

**226. Industrial Purchasing and Industrial Marketing.** The purchasing and selling of industrial goods. Prerequisite, course 155 and economics 102. Credit, three hours. Paynter.

**241. Foreign Trade.** The theory of foreign trade including free trade and protection, and commercial treaties and tariff history. Prerequisite, economics 102. Credit, three hours. Paynter.

**246. Foreign Markets.** A study of foreign markets from the point of view of the American exporter. Prerequisite, course 155 and economics 102. Credit, two hours. Paynter.

**281. Research in Marketing.** Research methods, market data and methods of conducting market surveys. Prerequisite, eighteen hours in commerce

including five hours in marketing, and permission. Credit, two to four hours each semester. The staff.

391. Seminar in Marketing. Prerequisite, eighteen hours in commerce including five hours in marketing, and permission. Credit, two to five hours each semester. The staff.

395. Thesis. Credit, four to eight hours. The staff.

## MATHEMATICS AND ASTRONOMY

1. Elementary Algebra. A beginning course in algebra designed for students who have had no algebra in high school. The topics ordinarily covered in a year of algebra in high school are studied in a semester. Credit, five hours.

3. Plane Geometry. A beginning course in plane geometry designed for students who have had no geometry in high school. The work ordinarily done in a year of geometry in high school is done in a semester. Credit, five hours.

4. Solid Geometry. Prerequisite, one year of high school algebra and one year of high school geometry or course 3. Credit, three hours.

5. Freshman Mathematics. A study of the number system, the rational operations, equations, exponents, radicals, logarithms, quadratic equations, binomial theorem, the trigonometric functions, right triangles, graphs, the addition theorems, solution of triangles, and progressions. Prerequisite, one year of high school algebra and one year of high school geometry, or mathematics 3. Credit, five hours. Marquis, Reed, Starcher.

6. Freshman Mathematics. A study of graphical representation, coordinate systems, the straight line, the circle, the conics, transformation of coordinates, and a brief treatment of solid analytic geometry. Prerequisite, mathematics 5. Credit, five hours. Marquis, Reed, Starcher.

7. College Algebra. A course designed for students who do not wish to take additional mathematics with the exception of course 34. Prerequisite, one year of high school algebra and one year of high school geometry or course 3. Credit, three hours.

8. Plane Trigonometry. Prerequisite, one year of high school algebra and one year of plane geometry or course 3. Credit, two hours.

9-10. Freshman Algebra. A course designed for students who have had one year of high school algebra but are not prepared for Freshman Mathematics or College Algebra. Each topic reviewed is extended into higher levels. The course has been planned to meet the needs of the teacher of high school mathematics. Students who have had one and a half years or more of high school algebra may enter course 10. Prerequisite, high school algebra as designated or course 1. Credit, three hours each semester. Morton.

11. Plane Trigonometry. A course designed for the needs of teachers of high school mathematics. Prerequisite, one year of high school algebra

and one year of high school geometry or courses 1 and 3. Credit, three hours. Benz.

**34. Mathematics of Finance.** A study is made of interest, annuities, sinking funds, valuation of bonds, capitalized cost, life insurance, and life annuities. Credit, three hours. Marquis.

**101-102. General Mathematics.** The course provides an introduction to mathematical thought and procedure by giving a synoptic treatment of the elementary processes and their applications. Prerequisite, one year of high school algebra and one year of plane geometry or course 3. Credit, four hours each semester. Starcher.

**105. College Geometry.** The subject comprises problems of construction, geometric loci, similar and homothetic figures, orthogonal circles, medians, bisectors, altitudes, and transversals. Prerequisite, course 6. Marquis.

**112. Descriptive Astronomy.** A study of the earth as an astronomical body, of the motions and physical characteristics of the sun and other bodies of the solar system and of the distances, constitution, and distribution of the stars and nebulae. The simple principles of physics and mathematics needed to understand the subject will be developed. Prerequisite, one year of high school algebra and one year of high school geometry or courses 1 and 3. Credit, three hours. Reed.

**117-118. Differential and Integral Calculus.** A study of variables and functions, theory of limits, differentiation and applications, successive differentiation, maxima and minima, differentials, curvature and radius of curvature, theorem of the mean, indeterminate forms, partial differentiation, expansion of functions in series, applications to higher plane curves. Integration, the integration of rational fractions, integration by rationalization, integration by parts, the definite integral as an inverse process, the definite integral as the limit of a sum, and a short study of the simpler types of differential equations. Prerequisite, course 6. Credit, four hours each semester. Reed, Marquis, Starcher.

**125. Theory of Statistics.** A course giving the common theory and methods of statistics used generally by investigators in widely different fields. The topics considered are: graphs, methods of computing the statistical constants, transformation of units, moments, the normal law, curve fitting, time series, trend and ratio charts, correlation, and regression. Prerequisite, course 118. Credit, three hours. Starcher.

**162. Teaching of Mathematics in the Junior High School.** Credit, three hours. Benz.

**163. Teaching of Mathematics in the Senior High School.** Credit, two hours. Benz.

**201. Theory of Equations.** The roots of unity, theorems on the roots of an equation, constructions with ruler and compasses, isolation of real roots, numerical solutions, determinants, systems of linear equations, symmetric functions. Prerequisite, course 6. Credit, three hours. Reed.

**204. Advanced Calculus.** Particular subjects in the differential and integral calculus. Expansions in series. Taylor's Series, infinite series, definite integrals and their applications to double and triple integrals, line integrals, and some vector analysis. Prerequisite, course 118. Credit, three hours. Reed.

**208. Projective Geometry.** The elements and the primitive forms, simple and complete rectilinear figures, the principle of duality, harmonic forms, projectively related primitive forms, curves of the second order, ruled surfaces of the second order, Pascal's and Brianchon's Theorems, the theory of poles and polars, projective forms of the second order, the theory of involution. Prerequisite, course 6. Credit, three hours. Marquis.

**211. Modern Analytic Geometry.** Point and line co-ordinates, trilinear coordinates, the principle of duality, and the study of conic sections. Prerequisite, course 118. Credit, three hours.

**215. Differential Equations.** The formation of a differential equation, types of equations solvable by transformations, linear equations with constant coefficients, with variable coefficients, integration by means of infinite series, simultaneous linear equations and a study of the differential equations arising in mechanics and physics. Prerequisite, course 118. Credit, three hours. Reed.

**219-220. Analytic Mechanics.** Moments of mass and inertia, kinematics of a point, rectangular and curvilinear motion, kinetics of a particle, work, energy, and impulse, motion of a particle in a constant field, central forces, motion in a resisting medium, and potential energy. Prerequisite, course 118. Credit, three hours each semester. Marquis.

**226. Theory of Statistics.** A study of the normal surface, probability, approximations to the point binomial, frequency curves and their uses, sampling theory, some advanced topics in correlation, multiple correlation, finite differences, and interpolation. Prerequisite, course 125. Credit, three hours. Starcher.

**301-302. Modern Higher Algebra.** Prerequisite, courses 118, 201. Credit, three hours each semester.

**311-312. Theory of Function of a Complex Variable.** Prerequisite, courses 118, 201, 215. Credit, three hours each semester.

**319-320. Theory of Function of a Real Variable.** Prerequisite, courses 118, 201, 215. Credit, three hours each semester.

## MILITARY SCIENCE AND TACTICS

**1-2. Basic Infantry.** The National Defense Act. Leadership. Rifle marksmanship. Obligations of citizenship. Military courtesy and discipline, organization, sanitation and first aid, history and policy, and map reading. Current international situations. Three hours a week. Credit, one hour each semester. McNeill, Olmstead.

**101-102. Basic Infantry.** Military fundamentals. Leadership, weapons,

combat training. Three hours a week. Prerequisite, course 2. Credit, one hour each semester. McNeill, Olmstead.

**121-122. Infantry, Advanced.** Military fundamentals. Leadership, weapons, combat training. Five hours a week. Prerequisite, course 102. Credit, three hours each semester. McNeill, Olmstead.

Note: Courses 101, 102, 121, and 122 will be given only if the enrollment justifies the course.

## MUSIC

**1. Music Fundamentals.** A course involving elementary theory, ear training, tone production, and sight singing of unison and part songs. Laboratory fee, \$2.00. Credit, two hours. Blayney, Maaser.

**3-4. Ear Training and Sight Singing.** Systematically graded exercises to quicken the musical hearing. Oral and written reproduction of melodies in all keys. Unison and part work in sight singing. Credit, two hours each semester. Brown.

**5-6. Music Appreciation.** The aim is to encourage intelligent listening, and consequent enjoyment of music. The victrola, piano, and organ are used for illustrative purposes. Credit, one hour each semester. Benedict.

**11-12. Music History.** A general development of music from the primitive and ancient peoples through the Polyphonic period; the classic music of the eighteenth century. The second semester includes a study of the music of the nineteenth and twentieth centuries; Romanticism, Impressionism, and tendencies of the present day. A survey of agencies for musical advancement in America. Credit, two hours each semester. Peterson.

**103-104. Ear Training and Sight Singing.** Advanced melodic and harmonic dictation involving intricate rhythms and altered chords. More difficult sight reading of vocal and instrumental forms, stressing the underlying harmony. Study of form. Credit, two hours each semester. Brown.

**105-106. Harmony.** Formation of major and minor scales; intervals, triads and their relations in open and close position; harmonizing of melodies; inversions, cadences, sequences, passing and auxiliary notes; original work. The second semester includes the seventh chord on the dominant and leading note, and their inversions; chord of the ninth on the dominant, and inversions. Credit, two hours each semester. Kresge.

**107-108. Keyboard Harmony.** Playing of triads, dominant sevenths and arpeggios. Harmonization of melodies in four voice harmony and in full piano style, improvisation of melodies with accompaniment in phrase and period form, transposition. Prerequisite, the ability to play a hymn correctly. Credit, one hour each semester. Witham.

**109-110. Ensemble.** Participation in the playing or singing of ensemble arrangements of classic and modern compositions. Credit, one hour each semester.

111-112. **Harmony.** Secondary seventh chords; altered and mixed chords; modulation, suspensions, retardations, anticipations, syncopations, organ-point, embellishments; harmonizing of melodies, or original work and analysis. Prerequisite, course 106. Credit, two hours each semester. Kresge.

113-114. **Analysis and Form.** Detailed analysis of the structure of musical compositions and polyphonic analysis. Material used: the hymnal; *Songs Without Words*, Mendelssohn; sonatas of Beethoven; fugues of Bach. Prerequisite, course 106. Credit, two hours each semester. Robinson.

115-116. **Counterpoint.** Single counterpoint in all species, in two, three or four parts. In the second semester the course develops motive, double counterpoint, free writing on original themes. Prerequisite, course 114. Credit, three hours each semester. Fontaine.

117-118. **Choral Speaking.** A development in vocal ensemble used in musical festivals in England and Scotland and recently introduced in America. Secures delicacy and precision of articulation, resonance, range, and flexibility of tone, perfect timing and tuning, together with an increased appreciation of the lyric beauty of fine poetry. Prerequisite, at least one hour in voice. Credit, one hour each semester. Benedict.

119. **Music Aesthetics.** Comparative musicology. A demonstration of the physical materials of music and a study of contemporary and early scale systems, the differences and interrelations of music and other arts with particular reference to form; speculations on presentative and representative music, criticism, and the practical nature of the aesthetic experience and appreciation of music. Credit, one hour.

120. **Instrumentology.** Comparative musicology. A study of musical instruments. An explanation of the physical phenomena of sound generation and resonance precedes a systematic study of the development of the keyboard and wind and stringed instruments. Credit, one hour. Janssen.

121. **Campus Orchestra.** A laboratory for instrumental majors. It provides practice for those who aim for increased facility in ensemble work. Open to any student who has sufficient skill in playing an orchestral instrument. Credit, one hour. Thackrey.

122. **Folk Dances and Singing Games.** Credit, one hour. Danielson.

125. **Music Appreciation for Grade Teachers.** A practical course for the grade teacher. Experience in hearing and identifying good music. Appreciation material and effective methods for its presentation. Credit, one hour. Blayne.

127. **Music Appreciation.** To familiarize students with the best material available for use in the elementary grades and high schools and methods of procedure in developing appreciation. Credit, three hours. Maaser.

130. **Ensemble Conducting.** The course offers the opportunity for study and practical experience in either choral or instrumental conducting. Stress is laid on the use of the baton, attack, release, control, phrasing, and other phases of foundational requirements. Interpretative studies in chorals, an-

thems, partsongs and the oratorio, opera, and symphony. Prerequisite, two years of university piano and theory courses and permission. Credit, one to six hours. Robinson, Ingerham, Janssen.

**131. Music Materials and Systems.** A survey of materials and music systems in general use. An emphasis on choral literature. Credit, two hours. Danielson.

**133-134. Instrumentation.** A study of the classification and scope of orchestral instruments, reading of scores, arranging and scoring for orchestra. The second semester emphasizes the scoring of hymns and folk tunes for strings, woodwind, brass; the scoring for simple combinations and for full orchestra and band. Minute analysis of symphonic scores. Prerequisite, course 114. Credit, three hours each semester. Janssen.

**161. Teaching of Music in the Grades.** Prerequisite, course 1. Credit, one hour. Danielson, Blayney, Maaser.

**163. Teaching of Music in First Six Grades.** Prerequisite, twenty semester hours in the department. Credit, three hours. Danielson.

**164. Teaching of Music in Junior and Senior High Schools.** Prerequisite, twenty semester hours in the department. Credit, three hours. Danielson.

**165. Teaching of Stringed Instruments.** Elementary class instruction in instruments of the string choir in a situation similar to that met in schools. No previous knowledge of the stringed instruments is required. Participation in the piano class work in the Training School. Credit, one hour. Thackrey.

**166. Teaching of Wind Instruments.** See course 165. Credit, one hour. Thackrey.

**167. Teaching of Piano.** See course 165. Credit, one hour. Maaser.

**171. Methods of Instrumental Instruction.** Methods of organizing and conducting classes in instrumental music, with a survey of materials. Problems of organizing bands and orchestras. Credit, three hours. Thackrey.

**172. Materials of Instrumental Instruction.** The course deals with specific problems in evaluation of instruments and materials, methods of financing and balancing the school instrumental program, the care and repair of instruments, and the adjusting of class schedules. Credit, one hour. Thackrey.

**173-174. Conducting.** Individual practice in conducting material appropriate for use in the junior and the senior high schools. Technique of score reading. Laboratory, the Campus Orchestra. Credit, one hour each semester. Danielson.

**211-212. Music History.** Developments of vocal music. A survey of the growth and development of all forms of vocal music from the monadic period up to the twentieth century era, with emphasis upon conditions influencing expression. The greater composers are studied in reference to their contributions and characteristic styles. The second semester traces the development of instrumental music. Prerequisite, courses 6, 12, 119 and 120. Credit, two hours each semester. Peterson.

**215-216. Harmony.** Chromatic harmony, modulation, altered chords, analysis. Original work. Comparison and examination of harmony text books. Prerequisite, course 112, 114 and two years of aural theory. Credit, two hours each semester. Kresge.

**217-218. Counterpoint.** The multiple forms of counterpoint. Double and triple counterpoint with and without free parts. Special attention is given to the Inventions and Partitas of Bach. Students will write short, original compositions in the contrapuntal style for organ or piano, trios for piano and strings or woodwinds, as well as simpler forms for string quartet. Prerequisite, course 116. Credit, two hours each semester. Fontaine.

**219-220. Composition.** Correlation of the harmonic and contrapuntal principles. Comparison of the rhetorical principles of music and poetry. Original writings in the more simple forms. Prerequisite, course 214 and an average of "B" in oral theory. Credit, two hours each semester. Robinson.

**305-306. Harmony.** A study of the new methods of chord structure in modern harmony, polytonality, atonality, analysis and original writing. Prerequisite, course 216. Credit, two hours each semester. Kresge.

**309-310. Canon and Fugue.** A critical study of the classic canon in all its forms. Complete familiarity with the Well Tempered Clavichord is expected. A fully developed original fugue in four voices is necessary for credit. Prerequisite, course 218 and permission. Credit, two hours each semester. Fontaine.

**311. Musicology.** The music of the eighteenth century. A detailed study of the backgrounds in literature, general history, social customs and the fine arts of the classic period, special attention to Haydn and Mozart. Prerequisite, courses 119, 120, 212, and six hours in European history. Credit, two hours. Benedict.

**312. Musicology.** Beethoven. An intensive study of the major works of the great master and a biographical survey of his life. Prerequisite, courses 119, 120, and six hours in European history. Credit, two hours. Benedict.

**313. Musicology.** Richard Wagner and the music drama. The social, economic and political conditions of nineteenth century Germany as reflected in the life of Wagner. As the fruition of romantic tendencies in music the Wagnerian drama will be considered in comparison with nineteenth century opera. *Tannhauser*, part of the *Ring* and *Die Meistersinger* will be studied. This course alternates with 311. Prerequisite, courses 6, 119, 120, 212, and six hours in European history. Credit, two hours. Benedict.

**314. Musicology.** Twentieth century trends. A study of the impressionism of Debussy and its influence. The motivation of the modernists, Scriabin, Stravinsky, and Schoenberg. This course alternates with 312. Prerequisite, courses 119, 120, 212, and six hours in European history. Credit, two hours. Benedict.

**325-326. Music Composition.** Extensive writing in the vocal and instrumental forms. The use of modern harmonic principles. Prerequisite, course 220. Credit, two hours each semester. Robinson.

**327-328. Advanced Orchestration.** Problems in scoring original works and arranging for the modern symphony orchestra. Satisfactory scores will be performed by the University Symphony Orchestra. Students will be required to attend an assigned number of orchestra rehearsals. The class work will include criticism of each student's work. Prerequisite, courses 116, 134. Credit, two hours each semester. Janssen.

**395. Thesis.** Credit, four to eight hours. Robinson.

## APPLIED MUSIC

**Organ.** Private instruction in organ requires a background of pianistic ability equivalent to four semesters of credit. Credit, one or two hours. Kresge.

**Piano.** Credit, one or two hours. Fontaine, Kresge, Longstreet, Board, Witham.

**Stringed Instruments.** Private instruction in violin, viola, violincello, and double bass. Credit, one or two hours. Ingerham, Shimp.

**Voice.** Credit, one or two hours. Robinson, Benedict, Roach, Peterson.

**Wind Instruments.** Credit, one or two hours. Janssen.

**Military Band.** Open to men students. Two hours a week are required in practice under the band leader. Credit, one hour. Janssen.

**University Glee Club, Men.** Admission by trial. Credit, one hour. Robinson.

**University Glee Club, Women.** Admission by trial. Credit, one hour. Benedict.

**University Orchestra.** Open to men and women students. Admission by trial. Credit, one hour. Ingerham.

**University Vested Choir.** An organization of mixed voices composed of the best vocal talent on the campus. The repertoire is confined to the highest type of vocal literature both a cappella and accompanied. Credit, two hours. Robinson.

## PAINTING AND ALLIED ARTS

**3. Art Fundamentals.** Elementary principles of art, using problems in water color, lettering, and composition. Special emphasis placed on art structure. One lecture and three laboratory hours a week. Credit, two hours. Willis, Work, Bedford, Morris.

**11. Art Structure.** Art principles, development of creative ability through the study of line, tone, and color in design and composition. One lecture and three laboratory hours a week. Credit, two hours. Work.

12. **Art Structure.** Color theory and harmony, problems in design with special emphasis upon color and color harmonies. Two lectures and four laboratory hours a week. Prerequisite, course 11. Credit, three hours. Bedford.

15. **Introduction to Art.** The appreciation of painting and allied arts is approached through the study of: the basic differences between good and bad art, the factors necessary for the creation of art, and the relationship of the space arts. Credit, two hours. Roos.

21-22. **History of Art.** The principal periods of art history from the earliest times to the present are made familiar to the student through a study of the most significant surviving forms. Credit, three hours each semester. Roos.

25. **Art in Everyday Life.** Lectures and laboratory planned to help the consumer select the best articles from the market. Credit, two hours. Bedford.

31. **Design and Art Structure.** Problems in lettering, design, and composition. Special emphasis on the laws of color harmony. One lecture and three laboratory hours a week. Credit, two hours. Willis.

45-46. **Methods in Representation.** The relationship of human vision and experience to methods of representation in the field of painting. One lecture and three laboratory hours a week. Credit, two hours each semester. Mitchell.

102. **Applied Design.** Principles of composition and color applied to posters, decorative boxes, wall hangings, painted tapestries, and table decorations. Two lectures and four laboratory hours a week. Credit, three hours. Willis.

103. **Practical Arts.** Special emphasis will be placed on the application of the principles of art structure to marionettes, toys, weaving, cardboard construction, clay modelling. One lecture and three laboratory hours a week. Laboratory fee, \$2.00. Credit, two hours. Bedford.

105. **Drawing.** A course in modern composition and drawing from the Post Impressionist point of view, using different mediums. Two lectures and four laboratory hours a week. Credit, three hours. Willis.

108. **Sketching for Beginners.** Quick sketches from life, including action and still poses of figures and animals, out-of-door sketching, and contour drawing of objects used in commercial advertising. One lecture and three laboratory hours a week. Laboratory fee, \$2.00. Credit, two hours. Morris.

113. **Art Structure.** Lettering, study of form, tone, spacing, manuscripts, initial letters, and advertisements. Two lectures and four laboratory hours a week. Prerequisite, course 11. Credit, three hours. Bedford.

114. **Art Structure.** All-over patterns. Principles used in creating textile designs. Two lectures and four laboratory hours a week. Prerequisite, course 12. Credit, three hours. Way.

115. **Pottery.** Making of original shapes. Coiling, building, pressing, and mould making. Methods of decoration. Study of history of pottery. One

lecture and three laboratory hours a week. Laboratory fee, \$2.00. Prerequisite, courses 3, 11, 105. Credit, two hours. Bedford.

**120. The Depth Problem.** Methodical practice in dealing with areas, shadows, reflections, and color in depth. One lecture and five laboratory hours a week. Prerequisite, course 45. Credit, three hours. Mitchell.

**121. Representation.** Practice in methodical representation from still life and cast models in several mediums. Field trips for the study of landscape painting methods. One lecture and five laboratory hours a week. Prerequisite, course 120. Credit, three hours. Mitchell.

**124. Jewelry.** Original designs are executed in pewter, copper, and silver. Two processes are studied: piercing and soldering. Four laboratory hours a week. Laboratory fee, \$2.00. Prerequisite, courses 3, 11, 31, or 135 and 148. Credit, two hours. Morris.

**128. Materials.** Source and nature of materials used by the painter. Prerequisite, course 121. Credit, two hours. Mitchell.

**135. Constructivism.** A course planned to give the student a knowledge of the possibilities of materials in constructive design. Two lectures and four laboratory hours a week. Prerequisite, course 12. Credit, three hours. Work.

**137-138. Costume Design.** Study of design in relation to dress. Designing for individual characters. Adaptation of historic styles to modern costume. Costumes for the stage and for pageants. One lecture and three laboratory hours a week. Prerequisite, course 12 or 31. Credit, two hours each semester. Way.

**140. Design Applied to Materials.** A course planned with special emphasis on the direct relation of design applied to both rigid and plastic materials. Problems in weaving, wood, metal, and cloth. Two lectures and six laboratory hours a week. Prerequisite, course 12. Credit, four hours. Bedford.

**141. Structure of Form.** Nature's forms studied both visually and anatomically under laboratory conditions. Methods of employing a knowledge of structure. Prerequisite, course 128. Credit, two hours. Mitchell.

**148. Principles of Art in Advertising.** Study of layout in advertising with emphasis on art principles. Problems will include letterheads, direct mail folders, trade marks, and magazine and newspaper layouts. One lecture and three laboratory hours a week. Credit, two hours. Morris.

**152. Bookbinding.** Problems in cardboard construction and bookbinding. One lecture and three laboratory hours a week. Laboratory fee, \$2.00. Prerequisite, course 113. Credit, two hours. Bedford.

**154. Weaving and Textile Design.** A course planned to give the student experience in weaving as a medium of design expression. Two lectures and six laboratory hours a week. Prerequisite, course 114. Credit, four hours. Bedford.

**157-158. Art Appreciation.** Appreciative study of line, mass, color, and form through design, architecture, sculpture, and painting. Credit, one hour each semester. Way.

**162. Teaching of Art for Early Childhood.** One lecture and one laboratory hour a week. Prerequisite, course 3. Credit, one hour. Work.

**164. Teaching of Art for Intermediate and Higher Grades.** One lecture and one laboratory hour a week. Prerequisite, course 3. Credit, one hour. Work, Bedford, Morris.

**167. Teaching of Art.** Prerequisite, twenty-one semester hours in the department. Credit, two hours. Way.

**171-172. House Decoration.** Brief study of architectural details and historic styles of furniture as used in modern homes. Study of house plans, decorative treatments, and materials. Two lectures and four laboratory hours a week. Prerequisite, course 114 and mechanical drawing. Credit, three hours each semester. Way.

**175. American Architecture.** A study of our most important works of architecture from the earliest settlements to the present day. Credit, two hours. Roos.

**176. American Painting and Sculpture.** The history of American painting and sculpture with special reference to the influences from other countries, and the relationship of each school to succeeding schools. Credit, two hours. Roos.

**177. Modern Painting.** A discussion of the factors which developed the Modernists in painting is followed by an investigation of the Impressionists, the Post-Impressionists, and the numerous schools which have followed them, both in Europe and America. Credit, two hours. Roos.

**178. Modern Architecture and Sculpture.** The course parallels course 177. Credit, two hours. Roos.

**201. Principles of Modern Art.** Foundations in the principles used by the Post-Impressionists. Problems developed in different media for advanced students. Two lectures and six laboratory hours a week. Prerequisite, courses 12, 31, 113. Credit, four hours. Willis.

**203. History of Italian Renaissance Painting.** The development of the history of painting in Italy during the Renaissance from the early Florentine and Sienese schools through the fifteenth and sixteenth centuries in central and northern Italy. The inter-relationship between this art and the art of other countries during the Renaissance is also considered. Prerequisite, nine hours in art. Credit, three hours. Roos.

**204. History of Italian Renaissance Architecture and Sculpture.** The course parallels course 203. Credit, three hours. Prerequisite, nine hours in art. Roos.

**205-206. Painting.** Practical application of theories and methods of rep-

resentation in color mediums. One lecture and five laboratory hours a week. Prerequisite, course 141. Credit, three hours each semester. Mitchell.

**207. Advanced Art Structure.** Composition for decorative panels with special emphasis on form and modelling in color to produce depth. Two lectures and two laboratory hours a week. Prerequisite, course 105 or 201. Credit, three hours. Willis.

**208. Prints.** Compositions in dark and light and color, carried out in linoleum blocks, Provincetown wood blocks, and in etching, aquatint, and dry-point. Two lectures and two laboratory hours a week. Prerequisite, course 114. Credit, three hours. Morris.

**210. History of the Decorative Arts.** The aim of the course is to provide a basis for determining degrees of excellence. The development of furniture, pottery, glass, textiles, and metal will be treated chronologically. Prerequisite, twelve hours in art. Credit, three hours. Roos.

**212. History of Engraving and Etching.** The historical appreciation of engravings, etchings, lithographs, and other graphic media. Examples offered by the masters of Italy and the North during the Renaissance down to the present. Prerequisite, twelve hours in art. Credit, three hours. Roos.

**213-214. House Decoration.** Floor plans and elevations rendered in correct architectural manner. From these, perspective drawings are constructed and rendered in color. Research is stressed and original adaptations are made from styles of all periods. Two lectures and two laboratory hours a week. Prerequisite, course 166. Credit, three hours each semester. Way.

**216. Pottery.** Pottery design, glazing, and firing, with emphasis on technique and original plans. One lecture and three laboratory hours a week. Laboratory fee, \$2.00. Prerequisite, course 115. Credit, two hours. Bedford.

**217-218. Poster Advertising and Industrial Styling.** Magazine and newspaper layouts and designs for book jackets, packages, bottles, textiles, posters, etc. One session each week is devoted to figure drawing using a model. Two lectures and two laboratory hours a week. Prerequisite, courses 12, 113, 148. Credit, three hours each semester. Morris.

**221. Advanced Costume Design.** Application of art principles to dress design. Study of the details of costume. One lecture and three laboratory hours a week. Prerequisite, course 138. Credit, two hours. Way.

**222. Art Supervision and Curricula.** Art objectives. Projects in teaching and supervision. The place of the art supervisor in various types of schools and suggestions for growth toward the ideal situation. Prerequisite, course 171 and eight hours in art. Credit, two hours. Way.

**225. Advanced Jewelry and Metal Work.** Jewelry, bowls, boxes, book-ends, and lamps in various metals. Four laboratory hours a week. Laboratory fee, \$2.00. Prerequisite, course 124. Credit, two hours. Morris.

**227. Workshop.** Orders filled for customers desiring good design in furniture, wall hangings, interior decoration, jewelry, posters, Christmas

cards, and other types of industrial styling. Two to six laboratory hours a week. Laboratory fee, \$1.00 for each credit hour. Prerequisite, twelve hours in art. Credit, one to three hours. Morris.

**229-230. Water Color.** Principles of art structure applied in the painting of still life and landscape compositions. Fundamentals of form, solidity, and depth are stressed. One lecture and three laboratory hours a week. Prerequisite, courses 12, 105. Credit, two hours each semester. Work.

**231-232. Appreciation of Painting.** A critical study of painting methods. Prerequisite, courses 46, 121, and permission. Credit, one hour each semester. Mitchell.

**331. Pictorial Composition.** Six laboratory hours a week. Prerequisite, course 206 and permission. Credit, three hours. Mitchell.

**336. Decorative Composition.** Six laboratory hours a week. Prerequisite, course 331. Credit, three hours. Mitchell.

**390. Seminar in Art History.** Prerequisite, eighteen hours in art, including courses 15 and 22. Credit, two hours. Roos.

**391. Seminar in Design.** Two laboratory hours a week. Prerequisite, eighteen hours in art and permission. Credit, one hour. Work.

**393. Seminar in Painting.** Six to eighteen laboratory hours a week. Prerequisite, course 331. Credit, three to nine hours. Mitchell.

**395. Thesis.** Credit, four to eight hours. The staff.

## PHILOSOPHY

**1. Problems of Religion.** Deals with some of the major religious and moral problems which perplex present-day youth. Problems chosen by the group are treated in lectures, readings, and class discussion. Credit, one to three hours. Houf.

**2. Introduction to the Bible.** Considers the Bible as history and literature and as a religious classic, the origins of its chief books, their nature and purpose, the background of the life and writings, a sketch of the main ideas, and some methods of Bible study. Credit, one hour. Houf.

**3. Introduction to New Testament Thought.** A brief study of the social and religious background of the period and the development of the New Testament writings forms the basis for detailed study of the teachings of Jesus and Paul and the other important types of New Testament thought. Credit, three hours. Houf.

**4. Introduction to Old Testament Thought.** Beginning with a survey of Hebrew history and the Old Testament literature, the course provides a study of the content and development of Hebrew thought, including early tradition, the ideals of the prophets, legal formalism, religious poetry, and the Messianic hope. Credit, three hours. Houf.

**5. Principles of Reasoning.** An elementary course in the general con-

ditions and principles of right thinking; the spirit, aims, and methods of investigation in the physical and social sciences. Credit, two hours. Gamertsfelder.

**6. Elementary Ethics.** Special attention is given to the biological and social influences which affect behavior. An introduction to the important ethical philosophies of life. Ample time is devoted to a consideration of contemporary personal and social problems. Credit, two hours. Houf.

**101. General Ethics.** A general course in ethics in which attention is given to the origin and development of moral ideas, the historical ethical theories, and to a constructive view of personal and social morality. The latter part of this course is given to class discussion of the chief personal and social problems of current life. Credit, three hours. Houf.

**103. Introduction to Philosophy.** An introductory study of the underlying principles of the sciences, morals, religion, and art in order to acquaint the student with philosophical conceptions as they appear in general literature. Credit, three hours. Gamertsfelder.

**104. Brief Introduction to Philosophy.** An abbreviation of course 103 for students who desire an acquaintance with philosophy. Not open to students who have had course 103. Credit, two hours. Gamertsfelder.

**107. The World's Great Religions.** A historical and comparative treatment of the origin, literature, beliefs, practices, and values of the living religions of the world. Credit, two or three hours as scheduled. Houf.

**109. Logic.** A study of the principles and methods of sound reflective thinking as applied in the special sciences, in oral or written exposition, and in argumentation generally. Credit, three hours. Gamertsfelder.

**112. Business and Professional Ethics.** Consideration of the place of business and professional organizations in society, and a study of the ethical practices and standards in the business world and in such professions as teaching, law, medicine, and engineering. The major emphasis is upon business ethics. Credit, two hours. Houf.

**113. American Philosophy.** A study of the speculative thought movements in American history with a view to explaining the philosophical background of our literature, social institutions, and national character. Prerequisite, three hours in philosophy. Credit, two or three hours as scheduled. Gamertsfelder.

**117. The Great Thinkers of the Orient.** A study of some of the leaders of thought in ancient and modern India, China, and Japan, with a view to acquainting the student with the chief ideas in the culture and civilization of the East. Credit, three hours. Houf.

**201. History of Ancient and Medieval Philosophy.** A historical introduction to the problems of philosophy emphasizing the relation of philosophical thought to the growth of the special sciences and the changes in civilization. Prerequisite, six hours in the department. Credit, three hours. Gamertsfelder.

**202. History of Modern Philosophy.** The development of philosophy from Francis Bacon to Herbert Spencer, with a brief survey of the contemporary movements in philosophy. Prerequisite, six hours in the department. Credit, three hours. Gamertsfelder.

**204. Social Philosophy.** An inquiry into the aims and purposes of social institutions with special reference to the family, education, economic activities, and the state. Emphasis is placed upon the problems of democracy. Prerequisite, six hours in the department. Credit, two hours. Houf.

**206. Contemporary Philosophy.** The reading and discussion of selections from representative philosophers of the present and recent past. Acquaintance will be made with the leading schools and movements in present-day philosophy. Prerequisite, six hours in the department. Credit, two hours. Gamertsfelder.

**208. Philosophy of Science.** This course aims primarily to acquaint the student with science as an element of human culture. Prerequisite, six hours in the department. Credit, two hours. Gamertsfelder.

**209. Philosophy of Religion.** The major topics are: what religion is, religion as related to other forms of culture, Christianity and the non-Christian religions, the existence and nature of God, the soul, prayer, the sacraments, and skepticism and faith. Prerequisite, six hours in the department. Credit, three hours. Houf.

**301. Minor Problems in Philosophy.** A critical study of the structure and content of selected types of philosophy, or an investigation of minor problems in the history of philosophy. Prerequisite, fifteen hours in the department. Credit, one to three hours as scheduled each semester. Gamertsfelder.

**391. Seminar in Philosophy.** Especially assigned problems are treated or the writings of important philosophers are read and critically examined. Prerequisite, fifteen hours in the department. Credit, two to four hours. Gamertsfelder.

**395. Thesis.** Credit, four to eight hours. The staff.

## PHYSICAL WELFARE

### MEN

**1-2. Sports.** The activities offered give the student a selection from the following sports: touch football, tennis, archery, basketball, tumbling, apparatus, fencing, volleyball, boxing and wrestling, handball, paddle tennis, softball, golf, fly and bait casting, and badminton. Three hours a week. Towel fee, \$1.00 each semester. Credit, one hour each semester. Hughes and staff.

**9-10. Adapted Activities.** Students with postural defects or those whose work should be restricted are assigned to activities adapted to their special needs. Three hours a week. Towel fee, \$1.00 each semester. Credit, one hour each semester. Trepp.

**22. Personal and Public Health.** The object of the course is to provide students with a fundamental knowledge of the source of material and an appreciation of the means whereby the health of the individual and of the group may be improved. Credit, three hours. Trepp.

**101-102. Sports.** Students may elect two activities each semester in which they are interested from the following group: tumbling and apparatus, handball, touch football, ping pong, cross country, boxing and wrestling, fencing, paddle tennis, volleyball, softball, horseshoe pitching, track and field, archery, fly and bait casting, golf, and tennis. Three hours a week. Towel fee, \$1.00 each semester. Prerequisite, courses 1-2 or 9-10. Credit, one hour each semester. Hughes and staff.

**109-110. Adapted Activities.** For students whose activities must be limited. Three hours a week. Towel fee, \$1.00 each semester. Credit, one hour each semester. Trepp.

**114. Appreciation of Sports.** The course will be an explanation of the four major sports to enable the average person to watch a game effectively and to learn the objectives of the coaches and players. It will also include methods of training and conditioning and the effects of poor training on the present and future conditions of the boys. Credit, two hours. Peden.

**121-122. Physical Activities.** Theory and practice in the following activities are considered: touch football, soccer, speedball, basketball, handball, swimming, elementary tumbling, apparatus, and fencing. The course presents methods and materials for teaching games and gives fundamental training. The last twelve weeks of the course will include methods and practice in rhythmic activities. Five hours a week. Towel fee, \$1.00 each semester. Prerequisite, course 102 or 110. Credit, two hours each semester. Herbert, Trepp and staff.

**123. Physical Activities.** The course will stress various techniques and procedures appropriate for the following activities: archery, golf, tennis, volleyball, and badminton. Consideration will also be given to individual and group methods. Social dancing will make up part of the course. Three hours a week. Towel fee, \$1.00. Prerequisite, course 122. Credit, one hour. Herbert and staff.

**124. Physical Activities.** The first twelve weeks of the course will be given to the study of formal physical education. Various systems of formal physical education will be reviewed. Special emphasis will be placed upon the development of personal proficiency in the teaching of formal work. The last six weeks of the course will include methods and practice in boxing and wrestling. Three hours a week. Towel fee, \$1.00. Prerequisite, course 123. Credit, one hour. Herbert and staff.

**125. Scouting.** A study of the theory and practice of scouting. The

course consists of lectures, assigned readings, and reports. Students pursuing this course will be assigned as assistants to one of the local scout troops. Credit, one hour. Trepp.

127. **Leadership in Protective Procedures.** The course is concerned with the treatment of emergencies and accidents in the home, on the street, in vocational pursuits, and on the athletic field. Emphasis is also placed on the teaching of safety in the elementary and secondary schools. The American Red Cross First Aid Certificate will be given to those who pass the required examination. Credit, two hours. Herbert.

133. **Theory and Practice of Adapted Activities.** The course includes the principles and methods of treatment of postural defects and other conditions, such as lack of coordination and development which handicap the individual in his progress. Credit, two hours. Trepp.

161. **Teaching of Basketball.** Coaching of basketball. Towel fee, \$1.00. Credit, two hours. Grover.

162. **Teaching of Football.** Coaching of football. Towel fee, \$1.00. Credit, two hours. Peden.

163. **Teaching of Baseball.** Coaching of baseball. Towel fee, \$1.00. Credit, one hour. Peden.

164. **Teaching of Track.** Coaching of track and field athletics. The course will take up the standard track and field events. In addition to special methods for development of individual performers, attention is given to the placement of men and team balance. Equipment, officiating, and the organization of meets are also considered. An opportunity is given the student for practice in the various track and field events. Towel fee, \$1.00. Credit, one hour. Herbert.

171. **Physical Activities.** The course presents advanced practice in tumbling and apparatus. Some attention is given to pyramids, the physical education circus, and demonstration. An opportunity is given the student to secure the American Red Cross Life Saving Certificate. Three hours a week. Towel fee, \$1.00. Prerequisite, course 122. Credit, one hour. Hughes.

## MEN AND WOMEN

30. **Introduction to Physical Welfare.** The purpose of the course is to give the beginning student a broad view of the health and physical education field. Consideration will be given the following: history, purpose, growth and development of health service, health instruction, physical education, recreation and athletics, health and physical education as a profession, curricula, personal qualifications, specialization and social relationships. Credit, one hour. Bird, Hatcher.

151. **Principles of Health.** The course deals with personal, school, and community health; is designed especially for teachers to assist them in carrying out health education programs in their schools. Credit, three hours. Drugan.

**152. Kinesiology.** A course in applied anatomy dealing with the principal types of muscular exercises and their relation to the problems of bodily development, bodily efficiency, and the prevention and cure of certain defects and deformities. Prerequisite, zoology 115. Credit, two hours. Trepp.

**153. Nature and Function of Play.** Play programs for schools, recreation centers, playgrounds, and scouting. One lecture, two hours practice a week. Credit, two hours. Bird.

**160. Teaching of Physical Welfare.** A course dealing with methods in physical education for elementary and secondary schools. Not required of majors. Credit, one hour. Rhoads.

**165. Teaching of Health.** A study of the various methods on instruction, principles, and curricula used in presenting health information to children of the different school levels. Prerequisite, course 22. Credit, two hours. Trepp.

**204. Interpretations and Objectives.** A study of the development of physical education in different nations and their contributions to our present day methods. The relationship of objectives of physical education to other phases of education and to health and character training. Prerequisite, twelve semester hours in the department beyond the second year required courses. Credit, three hours. Hatcher.

**206. Organization and Administration of Physical Welfare.** Physical and Health Education in elementary and secondary schools, normal schools, and colleges: athletic management, intramural activities, interscholastic and intercollegiate athletics. Prerequisite, twelve semester hours in the department beyond the second year required courses. Credit, two hours. Bird.

**209. Physical Activities Tests.** A theoretical and practical study of available tests and measurements and the general principles involved in the construction of tests. Various tests and measurements will be analyzed to determine their place, use, and possibilities in the physical welfare program. Prerequisite, six semester hours in the department beyond the second year required courses. Credit, two hours. Nessley and staff.

**251. Community Recreation.** A course for leaders and all those interested in guiding leisure time programs. Topics to be discussed will include: brief history of the play movement, programs and program making, general administration of playgrounds and community centers and activities. Prerequisite, four semester hours in the department beyond the second year required courses and course 153. Credit, two hours. Hughes and staff.

**252. School Health Service.** The course is concerned with the health examination of the school child, morning health inspection, hospital and dispensary service, teacher-pupil relationship, sanitation of the school plant, etc. Prerequisite, course 22 and nine semester hours in the department beyond the second year required courses. Credit, three hours. Trepp.

**351. Health Problems.** A survey of the contents and relationships of the current problems in health education. An opportunity for the investiga-

tion of specific problems and for the study of techniques. Prerequisite, fifteen semester hours in the department. Credit, three hours. Trepp and staff.

**352. Problems in Physical Welfare.** Prerequisite, fifteen semester hours in the department. Credit, three hours. Bird and staff.

**391. Seminar in Physical Welfare.** For students who desire to pursue special research or investigation in physical welfare. Reviews of current literature and discussions of physical activities. Prerequisite, fifteen semester hours in the department. Credit, three hours. Bird and staff.

**395. Thesis.** Credit, four to eight hours. The staff.

### WOMEN

**1-2. Sports.** Activities are offered according to the season. Students may choose from hockey, soccer, basketball, badminton, tennis, archery, volleyball, baseball, track and field. Three hours a week. Towel fee, \$1.00 each semester. Credit, one hour each semester. The staff.

**3-4. Swimming.** Instruction in strokes and diving according to student's ability. Three hours a week. Towel fee, \$1.00 each semester. Credit, one hour each semester. Spencer.

**5. Folk and National Dancing.** Three hours a week. Towel fee, \$1.00 each semester. Credit, one hour each semester. Hatcher, LaTourrette.

**6. Elementary Clog and Tap Dancing.** Three hours a week. Towel fee, \$1.00 each semester. Credit, one hour each semester. Hatcher, LaTourrette.

**7-8. Modern Dance.** Fundamentals of body and locomotor movement. A study of the elements of dance composition with opportunities for creative work. Three hours a week. Towel fee, \$1.00 each semester. Credit, one hour each semester. Alexander.

**9-10. Adapted Activities.** For students with postural defects and students whose activities must be restricted. Three hours a week. Towel fee, \$1.00 each semester. Credit, one hour each semester. Brown.

**22. Personal and Public Health.** A course aiming to give the student knowledge of public, personal and sex hygiene. Not open to those who have had course 151. Credit, three hours. Hatcher.

**101-102. Sports.** Activities are offered according to season. Three hours a week. Towel fee, \$1.00 each semester. Credit, one hour each semester. Hatcher.

**103-104. Swimming.** Instruction in strokes and diving according to student's ability. Three hours a week. Towel fee, \$1.00 each semester. Credit, one hour each semester. Spencer.

**105-106. Tap Dance.** Tap dances of a skill level adapted to the group. Three hours a week. Towel fee, \$1.00 each semester. Credit, one hour each semester. Alexander.

**107-108. Modern Dance.** Fundamentals of dance with a study of the elements of dance composition and opportunities for creative work. Three hours a week. Towel fee, \$1.00 each semester. Not open to those who have had course 8. Credit, one hour each semester. Alexander.

**109-110. Adapted Activities.** For students whose activities must be restricted. Three hours a week. Towel fee, \$1.00 each semester. Credit, one hour each semester. Brown.

**111-112. Advanced Swimming.** Includes instruction in all strokes, diving, life saving, and watermanship in general. Three hours a week. Towel fee, \$1.00 each semester. Prerequisite, permission. Credit, one hour each semester. Spencer.

**115-116. Modern Dance, Advanced.** Three hours a week. Towel fee, \$1.00 each semester. Prerequisite, course 108. Credit, one hour each semester. Alexander.

**121-122. Physical Activities.** Sports technique, team and individual, dancing, swimming, squad work in self testing activities, track and field. Students are given achievement tests and assigned activities and credit according to test results. Three hours a week. Towel fee, \$1.00 each semester. Credit, one to three hours each semester. The staff.

**125. The Essentials of Girl Scouting.** The course consists of a general introduction to the girl scout program. A week-end will be spent at the local girl scout camp to give practical experience in conducting hikes and in doing out-door cooking. Hobbies are encouraged in handicraft and in nature. Recreational games and activities are emphasized. Credit, two hours. LaTourrette.

**126. Scouting Practice.** The course consists of actual participation as an assistant in one of the local troops. Prerequisite, course 125. Credit, one hour. LaTourrette.

**127. Leadership in Protective Procedures.** Consideration is given to theory and practice of first aid and massage. Some emphasis is placed upon the treatment of athletic injuries. Students will be eligible to take the American Red Cross First Aid Instructor's examination. Credit, two hours.

**129-130. Organization of Physical Activities.** Theory and practice of activities suitable for the elementary schools. One lecture and three laboratory hours a week. Towel fee, \$1.00 each semester. Credit, two hours each semester. The staff.

**131. Mass Games.** Towel fee, \$1.00. Credit, one hour. LaTourrette, Spencer.

**133. Theory of Adapted Activities.** Includes the diagnosis, treatment, and organization of work with postural and foot defects, scoliosis and other conditions corrected by exercise, as well as the theory of giving physical education to those unable to do the regular gymnasium work. Prerequisite, course 152. Credit, two hours. Brown.

**134. Practice of Adapted Activities.** A course in the practice of orthopedic work. Prerequisite, course 133. Credit, one hour. Mee.

**135. Maternal and Child Health.** The course deals with the normal biological and physiological processes of human reproduction together with the

varied factors which contribute to abnormalities and mortality of both mother and child. Credit, two hours. Druggan.

**136. Theory of Dance.** A study of the history, theory, principles and philosophy underlying dance from primitive times. Particular emphasis is given to trends in modern dance. Prerequisite, one semester of dance. Credit, one hour. Alexander.

**137-138. Dance Problems.** Problems will be adapted to the individual, giving an opportunity for creative work under direction. Compositions will be constructed, analyzed, and discussed. There will be directed readings on dance and related arts and a survey and evaluation of present theory and practice in dance. Prerequisite, course 116 and permission. Credit, one or two hours each semester. Alexander.

**139. Athletic Officiating.** Theory and practice of officiating field hockey and basketball. Credit, one hour. Hatcher, Alexander.

**140. Athletic Officiating.** Theory and practice of officiating volleyball, soccer, baseball, and track. Credit, one hour. LaTourrette.

**166. Theory and Teaching of Swimming.** Credit, two hours. Spencer.

**167. Teaching of Coaching.** Theory and practice of coaching field hockey and basketball. Towel fee, \$1.00. Credit, two hours. Hatcher, Alexander.

**168. Teaching of Coaching.** Theory and practice of coaching volleyball, soccer, baseball, track and field activities. Towel fee, \$1.00. Credit, two hours. LaTourrette.

**171-172. Organization of Physical Activities.** Theory and practice of activities suitable for the junior and senior high schools. One lecture and three laboratory hours a week. Towel fee, \$1.00 each semester. Prerequisite, senior rank. Credit, two hours each semester. The staff.

**175. A School Physical Welfare Program.** A summer session substitute for courses 171 and 172. A study of the theory and leadership organization of physical education activities and the building of a program adapted to the capacities and needs of each age period. Credit, two hours. Hatcher.

**177. Massage and Therapeutics.** An advanced course in the principles of massage and the practical application of these principles to athletic injuries, fractures, and paralysis. Prerequisite, course 127. Credit, two hours.

## PHYSICS

**1-2. The Physical World.** The principles underlying nature's activities, their relation to man's needs and interests, and their application in the development of devices and conveniences in modern life. Two lectures and two laboratory hours are available for students in the University College who are required to have a laboratory science, laboratory fee of \$3.00 each semester; for others there are three lecture-demonstrations. Credit, three hours each semester. Heil.

**3-4. Introduction to Physics.** The course covers the fields of mechanics, heat, sound, electricity, magnetism, and light. Credit, three hours each semester. Atkinson, Edwards.

**5-6. Introduction to Physics Laboratory.** A laboratory course designed to accompany courses 3 and 4. Laboratory fee, \$4.00 each semester. Credit, one hour each semester. Heil, Edwards, and assistants.

**113-114. General Physics.** Prerequisite, mathematics 6 and chemistry 4. Credit, three hours each semester. McClure, Edwards.

**115-116. General Physics Laboratory.** Experiments of an advanced character which must be taken with courses 113 and 114. Laboratory fee, \$4.00 each semester. Credit, one hour each semester. Green, Edwards, and assistants.

**161. Teaching of Physics.** Always scheduled in the summer session. Prerequisite, one course in physics. Credit, two hours. Atkinson.

**211. Physical Optics.** A course designed to develop the theory of those phenomena of light which are characteristic of waves, a study of the exact relations between refraction and wave length, the design of achromatic lenses, diffraction phenomena of single and of many slits. Prerequisite, courses 114, 116 and mathematics 118. Credit, three hours. Heil.

**223-224. Ions, Electrons, and Ionizing Radiations.** Some of the topics treated are: properties of gaseous ions, the charge of an ion, ionization by collision, cathode rays, emission of electricity from hot bodies, x-rays, radium and its products, the electron theory of matter. Prerequisite, mathematics 118. Credit, three hours each semester. McClure.

**225-226. Advanced Physics Laboratory.** Prerequisite, courses 114, 116 and mathematics 118. The staff.

**a. Mechanics and Heat.** Determination of "g" with physical pendulum, with Kater's pendulum; torsional hysteresis; elastic curves; determination of coefficient of viscosity, surface tension; study of thermo-couple, heat content of a gas; use of the optical pyrometer. Laboratory fee, \$3.00. Credit, three hours.

**b. Electricity and Magnetism.** Calibration of a galvanometer; Raleigh potentiometer; dielectric constants; study of ballistic galvanometer, transients, magnetic hysteresis; use of the oscillograph. Laboratory fee, \$3.00. Credit, three hours.

**c. Advanced Optics.** Determination of refractive indices with the spectrometer and refractometer; measurement of wave length with the grating; use of the interferometer and the polarimeter; spectrum analysis. Laboratory fee, \$3.00. Credit, three hours.

**d. Electronic Physics.** Study and use of the electrometer; use of the electroscope for the comparison of radio-activities; study of the three electrode tube; verification of Richardson's equation; study of the Tungar rectifier; conductivity of flames; determination of the charge of the electron;

Laue and powder method for the determination of crystal structure. Laboratory fee, \$1.00 for each credit hour. Credit, one to three hours.

249-250. **Introduction to Modern Physics.** Some of the topics treated are: elementary quantum of electricity, corpuscular radiations, elementary quantum action, spectra of hydrogen and ionized helium, x-ray spectra, optical spectra, and molecular spectra. Prerequisite, mathematics 118. Credit, two hours each semester. McClure.

253-254. **Advanced Sound.** A course in the fundamentals of sound theory, beginning with a study of vibratory motion in strings, rods, plates, and pipes. Such subjects as analysis of sound, transmission theory of sound, measurement of sound intensity, interference patterns, and stationary waves are treated. Prerequisite, course 114 and mathematics 118. Credit, two hours each semester. Green.

305-306. **Theoretical Physics.** Advanced dynamics, Lagrange's equations, Hamilton's principle, canonical equations, Hamiltonian-Jacobi equation, hydrodynamics, thermodynamics, statistical mechanics, kinetic theory. Credit, three hours each semester. Heil.

311-312. **Advanced Atomic Structure and Theory of Quanta.** Elementary constituents of the atom, hydrogenic atoms and their spectra, general theorems of optical spectra, old quantum theory, x-rays and x-ray spectra, molecular spectra. Credit, three hours each semester. Heil.

381. **Research in Physics.** Prerequisite, courses 114, 116 and mathematics 118. Laboratory fee, \$1.00 for each credit hour. Credit, one to four hours. The staff.

391. **Seminar in Physics.** Prerequisite, fifteen semester hours in physics. Credit, one hour each semester. The staff.

395. **Thesis.** Credit, six hours. The staff.

## PSYCHOLOGY

1. **General Psychology.** A study of the most significant facts and laws of mental life. Two lectures and two laboratory hours a week. Laboratory fee, \$1.00. Credit, three hours. Lehman, Anderson, Patrick, Gentry, Scott, Paulsen.

2. **Advanced General Psychology.** Emphasis upon the main problems of psychology, giving the points of view of the different schools. Many fields of psychology are rapidly surveyed. Prerequisite, course 1. Credit, three hours. Scott.

3. **Child Psychology.** Topics considered: sensory life of child, emotions, curiosity, imagination, memory, imitation, language, art, moral and religious development. Prerequisite, course 1. Credit, three hours. Porter.

4. **Business Psychology.** Important psychological problems in business and industry including the following topics: employee selection, motivation,

and training; factors determining productivity, accidents, fatigue and monotony. Prerequisite, course 1. Credit, three hours. Paulsen.

**5. Educational Psychology.** The nature and rate of the learning process. The influence upon learning efficiency of such factors as heredity and environment, maturation, emotion, motivation, etc. Two lectures and two laboratory hours a week. Laboratory fee, \$1.00. Prerequisite, course 1. Credit, three hours. Lehman, Anderson, Patrick, Gentry, Paulsen.

**6. The Psychology of Advertising and Selling.** Prerequisite, course 1. Credit, three hours. Anderson.

**109. Experimental Psychology.** Training in the scientific methods and tools of modern experimental psychology. Individual reports of experiments in the following fields: sensory processes, individual differences, learning, memory, etc. Two lectures and four laboratory hours a week. Laboratory fee, \$1.00. Prerequisite, course 1. Credit, three hours. Paulsen.

**113. Psychology of Junior and Senior High School Pupils.** A study of the contributions to adolescent personality of physical growth, glandular changes, and emotions; interests, religious experience, and maladjustments are also considered. Prerequisite, course 1. Credit, two hours. Gentry.

**116. Psychology of Individual Differences.** The extent and the nature of individual differences, the influence thereupon of such factors as heredity, environment, race, nationality, age, and sex. Miscellaneous applications are also considered. Prerequisite, course 1. Credit, three hours. Lehman.

**119. Mental Measurements.** The methods and results of individual and group intelligence tests. Training in the giving and interpretation of intelligence tests. Two lectures and one laboratory hour a week. Laboratory fee, \$1.00. Prerequisite, course 1. Credit, three hours. Porter, Anderson, Paulsen.

**124. Clinical Psychology.** Lectures, discussions, and observations of selected cases. Survey of methods in clinical diagnosis of problem children and adults. Prerequisite, courses 5, 119. Credit, three hours. Gentry.

**132. Personnel and Vocational Psychology.** Determinants of vocational aptitude, special capacity tests, traditional methods used in vocational psychology and character analysis, self-analysis, recommendation and testimonial, the personal interview, common sources of error and their correction. Offered only during summer session. Prerequisite, course 1. Credit, three hours. Lehman.

**201. Experimental Psychology.** Research on a topic selected by the student. Laboratory fee, \$1.00. Prerequisite, course 1, 109, and an additional three semester hours in psychology. Credit, three hours. Paulsen.

**204. Psychology of Exceptional Children.** The growth and development of non-typical children with special reference to the nature, the cause of, and the possibility of remedial treatment. Speech disorders, left-handedness, deafness, blindness, delinquency, psychopathy, special talents and defects, and other characteristics of extreme deviates are considered. Prerequisite, nine semester hours in psychology. Credit, three hours. Lehman.

**207. Comparative and Genetic Psychology.** Behavior of lower and higher organisms leading up to man is considered. A comparative-genetic-psychobiological approach is maintained. Two lectures and two laboratory hours a week. Laboratory fee, \$1.00. Prerequisite, nine semester hours in psychology. Credit, three hours. Patrick.

**209. Motivation.** The dynamics of animal and human behavior: a study of drives, desires, wishes, incentives, etc. Prerequisite, nine semester hours in psychology. Credit, three hours. Patrick.

**210. Mental Hygiene.** The course aims to evaluate and synthesize information bearing upon mental health from the following fields: psychology, psychiatry, physiology, medicine, and sociology. Prerequisite, nine semester hours in psychology. Credit, three hours. Patrick.

**212. Abnormal Psychology and Mental Hygiene.** Considers man's mental deviations from the normal; the theory, application and limitations of psychoanalysis; methods of studying abnormal mental processes. Clinics at hospitals. Two lectures and one laboratory hour a week. Laboratory fee, \$1.00. Prerequisite, nine semester hours in psychology. Credit, three hours. Porter.

**214. Psychology of Religion.** Prerequisite, nine semester hours in psychology. Credit, two hours. Anderson.

**215. Social Psychology.** An introductory study of the social-mental relations between individuals, significance of instincts, habit formation, and reflection in human social life. Methods of investigating social behavior. Prerequisite, nine semester hours in psychology. Credit, three hours. Porter.

**217. The Psychology of Personality.** Influence of home and school on training and development of children's personality; also adult personality in business and social life. Prerequisite, nine semester hours in psychology. Credit, three hours. Porter.

**219. Advanced Clinical Psychology.** Etiology of behavior disturbances. Symptomatic approach to clinical diagnosis emphasized. Prerequisite, nine semester hours in psychology. Credit, three hours. Gentry.

**220. Personnel Management.** The study and solution of significant human problems in modern industrial, commercial, and educational institutions. To train students for positions as personnel workers. Prerequisite, nine semester hours in psychology. Credit, two hours. Porter.

**225. Minor Problems.** Training in the scientific study of some problem of special interest to the student. Relatively independent work emphasized. Permission. Prerequisite, nine semester hours in psychology. Credit, one to three hours. The staff.

**233. Learning and Memory.** Lectures and readings attempting to systematize the experiments and theoretical work in this field. Prerequisite, nine semester hours in psychology. Credit, two hours. Anderson.

**235. History of Psychology.** The evolution of methods and concepts of

psychology with emphasis on more recent trends. Prerequisite, nine semester hours in psychology. Credit, two hours. Scott.

**237. Feelings, Emotions, and Aesthetics.** An analysis of studies of the feelings, emotions, and sentiments, and the role they play in aesthetic appreciation, particularly music and art. Prerequisite, nine semester hours in psychology. Credit, three hours. Patrick.

**241. Current Psychological Literature.** An attempt to acquaint the student with the leading psychological journals, recent books, and their current contribution. Prerequisite, nine semester hours in psychology. Credit, two hours. Porter.

**291. Seminar in Psychology.** Reports on recent books and articles. Method of investigation and statistical treatment emphasized. Prerequisite, nine semester hours in psychology. Credit, two hours. Porter.

**302. Mental Measurements.** Special emphasis on use of performance and special tests. Clinical and diagnostic significance of special tests and of test items within the Stanford-Binet. One lecture and one laboratory hour a week. Laboratory fee, \$1.00. Prerequisite, eighteen semester hours in psychology. Credit, two hours. Anderson.

**309. Educational Psychology.** Considers the neurological and physiological basis of learning, the factors influencing speed and permanence, the influences detrimental to learning, retention and recall, the relationship of physical and mental traits. Prerequisite, twelve semester hours in psychology and six semester hours in zoology. Credit, three hours. Lehman.

**381. Research in Psychology.** Prerequisite, eighteen semester hours in psychology and permission. Credit, one to three hours. The staff.

**391. Seminar in Psychology.** Trends and methods in psychology are critically reviewed. Cooperative investigations, findings of many studies coordinated with the student's own findings. Prerequisite, eighteen semester hours in psychology and permission. Credit, two hours. The staff.

**395. Thesis.** Credit, two to four hours. The staff.

## ROMANCE LANGUAGES

### FRENCH

**1-2. Beginning French.** Includes the essentials of grammar, drill in pronunciation, conversation, and reading. Credit, four hours each semester. The staff.

**101-102. Intermediate French.** Includes a review of grammar, composition, and the reading of a variety of short stories, novels, and plays from modern French literature. Prerequisite, course 2 or two years of high school French. Credit, four hours each semester. The staff.

**119-120. French Civilization.** A study of the geography, history, life,

current events, customs, government, education, science, press, art, and music of France. Readings in French and discussions in English. Credit, two hours each semester. Noss.

**123-124. French Conversation.** The course affords an opportunity to acquire facility in the use of spoken French. The work will be based in part on a text dealing with French life and on French periodicals. It is recommended that the course be taken with one of the literature courses. Prerequisite, course 102 or three years of high school French. Credit, one hour each semester. Noss.

**162. Teaching of French.** Prerequisite, course 102. Credit, two hours. Noss.

**201-202. Survey of French Literature.** Lectures, readings, and reports affording a general view of the subject from the beginning to the present time. It is recommended that students elect this course to be taken before or with other courses in French literature. Lectures are given in French with regular class tests in English. Special topics for investigation by advanced students. Prerequisite, course 102. Credit, one to four hours each semester. Wilkinson.

**211-212. Seventeenth Century Drama.** A study of the comedies of Moliere and the tragedies of Corneille and Racine. Prerequisite, course 102. Credit, three hours each semester. Noss.

**215. Phonetics.** A practical study of French pronunciation with the help of international phonetic symbols. Analysis of French sounds and their formation, principles of syllabification, stress, quantity, linking, and intonation. The elements of diction. Extensive use of phonograph records. Prerequisite, course 102. Credit, two hours. Noss.

**219-220. French Romanticism.** A study of the development of lyric poetry, the novel, and the drama during the first half of the nineteenth century. Prerequisite, six hours in French beyond course 102. Credit, two hours each semester. Noss.

**225. Old French Literature.** A study of French literature from its beginning to the end of the fifteenth century. A modern French translation accompanies the Old French in the text used. No previous knowledge of Old French is required. Prerequisite, six hours in French beyond course 102. Credit, two hours. Noss.

**228. Sixteenth Century French Literature.** A history of the development of French thought during the Renaissance as seen in the works of Rabelais, Calvin, the Pleiade, Montaigne, and others. Prerequisite, six hours in French beyond course 102. Credit, two hours. Noss.

**231-232. Seventeenth Century French Literature.** A study of seventeenth century literature, with the exception of the drama. Selected readings from Malherbe, Descartes, Pascal, La Fontaine, Mme. de Sevigne, Boileau, Mme. de La Fayette, La Rochefoucauld, La Bruyere, and Fenelon. Prerequisite, course 102. Credit, three hours each semester. Noss.

**235. Eighteenth Century French Literature.** A study of the works of the chief dramatists of this period, including Lesage, Voltaire, Marivaux, Diderot, Sedaine, and Beaumarchais. Prerequisite, six hours in French beyond course 102. Credit, two hours. Noss, Renkenberger.

**236. Eighteenth Century French Literature.** A study of the literature of this period exclusive of the drama. Works of Montesquieu, Diderot, Voltaire, Rousseau, and Chenier will be read. Prerequisite, six hours in French beyond course 102. Credit, two hours. Renkenberger.

**239-240. Nineteenth Century French Drama.** History of the French drama, beginning with the pre-romantic movement and continuing to the present. Lectures in French, with regular class tests in English. Special topics for investigation by advanced students. Collateral readings and reports. Prerequisite, course 102. Credit, one to four hours each semester. Wilkinson.

**243-244. Advanced French Composition.** Includes drill in pronunciation. Prerequisite, course 102. Credit, one or two hours each semester. Wilkinson.

**250-251. Modern French Fiction.** A reading course on the novel from 1880 to the present. The ability to understand and use spoken French with ease is not required. Prerequisite, course 102. Credit, three hours each semester. Noss, Leete.

**261-262. Advanced French Grammar and Teaching Methods.** Prerequisite, three years of college French, or "B" in course 102. Credit, one to three hours each semester for undergraduates, one to two hours for graduate students. Wilkinson.

**271. Advanced French.** Courses designed to meet the special interests of advanced students. The work is conducted entirely in French. Prerequisite, fourteen hours in French beyond course 102. Credit, two or three hours. Noss.

- b. Boileau
- d. Modern French Drama
- m. Moliere
- n. Modern French Novel
- po. Nineteenth Century Poetry
- pr. Seventeenth Century Prose
- r. Racine
- s. Mme. de Sevigne

**321-322. Romance Philology (Old French).** See Romance Philology.

**325-326. Romance Philology (Southern French and Catalan).** See Romance Philology.

**395. Thesis.** Credit, four hours. The staff.

## ITALIAN

**1-2. Beginning Italian.** Pronunciation, the fundamental principles of Italian grammar, and practice in the use of the language. Credit, one to five hours each semester. Wilkinson, Ondis.

**101-102. Intermediate Italian.** A course for reviewing grammar, studying idioms, and reading freely in modern Italian literature, with some emphasis on diction and conversation; also a systematic study of the verb. Credit, one to four hours each semester. Wilkinson, Ondis.

**201-202. Survey of Italian Literature.** Brief outline of the history of Italian literature, given in English or in Italian according to the nature and preparation of the class. Prerequisite, course 102. Credit, one to three hours each semester. Wilkinson, Ondis.

**207-208. Supplementary Readings in Italian Literature.** To be taken in addition to or independently of 201-202. Reading assigned, supervised, and discussed by instructor, with periodic conferences. Prerequisite, course 102. Credit, one or two hours each semester. Wilkinson, Ondis.

**209-210. Italian Composition.** An advanced course. Prerequisite, course 102. Credit, one or two hours each semester. Wilkinson, Ondis.

**251. Advanced Italian.** Advanced work in language and literature, with special instruction of a technical character in Italian. Individual work done under the guidance of instructors. Prerequisite, twenty hours in Italian. Credit, one to eight hours each year. Wilkinson, Ondis. The offerings are as follows:

- a. General introduction to the study of the literature of the thirteenth century, including the chief philological principles involved in the formation of Old Italian.
- b. The fourteenth century, including special study of Dante, Petrarch, or Boccaccio.
- c. The Renaissance in Italy.
- d. Il Seicentismo. Decadence and affectation in Italian letters, with consideration of analogous movements in other modern literatures.
- e. The eighteenth century, including Goldoni and Alfieri.
- f. The nineteenth century. Romanticism and the Risorgimento.
- g. Contemporary Italian literature.
- h. Storia dell' Italia Moderna.

**331-332. Romance Philology. (Old Italian).** See Romance Philology.

**395. Thesis.** Credit, four hours. The staff.

#### ROMANCE PHILOLOGY

**225-226. General Romance Linguistics.** Introduction to comparative philology. A study of Vulgar Latin forms in connection with the general philology of French, Italian, Portuguese, and Spanish. Correct pronunciation of the modern languages is stressed. Prerequisite, course 102 in French, Italian, or Spanish and course 2 in another Romance language or course 102 in Latin. Credit, one hour each semester. Wilkinson.

**321-322. Romance Philology (Old French).** Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in French. Prerequisite, sixteen hours in French and sixteen hours in another Romance language or in Latin.

Course 226 is advised but not required. Credit, two hours each semester. The staff.

**325-326. Romance Philology (Old Provençal — Southern French and Catalan).** Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in Provençal. Prerequisite, sixteen hours in each of two Romance languages or in one Romance language and Latin. Course 226 is advised but not required. Credit, two hours each semester. The staff.

**331-332. Romance Philology (Old Italian).** Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in Italian. Prerequisite, sixteen hours in Italian and sixteen hours in another Romance language or in Latin. Course 226 is advised but not required. Credit, two hours each semester. The staff.

**341-342. Romance Philology. (Old Spanish and Portuguese).** Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in Spanish and Portuguese. Prerequisite, sixteen hours in Spanish and sixteen hours in another Romance language or Latin. Course 226 is advised but not required. Credit, two hours each semester. The staff.

**391. Seminar in Romance Philology.** Prerequisite, courses 226, 102 in two of the three Romance languages, and course 2 in the third. Credit, two hours each semester. The staff.

**395. Thesis.** Credit, four hours. The staff.

## SPANISH

**1-2. Beginning Spanish.** Introduction to the rudiments of Spanish grammar, with emphasis on correct pronunciation. Reading and practice in conversation. Credit, four hours each semester. The staff.

**101-102. Intermediate Spanish.** Review of grammar, study of idioms, compositions, conversation, varied reading in modern literature and some of the outstanding features of Spanish history and culture. Credit, four hours each semester. The staff.

**103. Spanish Culture and Civilization.** The history, literature, and cultural development of Spain. The course will be conducted in English. Credit, one hour. Whitehouse.

**112-113. Spanish Composition and Conversation.** Prerequisite, course 102 or permission. Credit, two hours each semester. Whitehouse, Ondis.

**162. Teaching of Spanish.** Credit, two hours. Whitehouse, Ondis.

**201-202. Survey of Spanish Literature.** Historic and literary study of Spain from the middle ages to the present time. Prerequisite, course 102. Credit, three hours each semester. Whitehouse, Ondis.

207. **The Golden Age.** Historic and literary study of the sixteenth and seventeenth centuries. Works of the leading dramatists, as Lope de Vega, Calderon, Tirso de Molina, etc., and some prose, except Cervantes, will be read. Prerequisite, course 102. Credit, three hours. Whitehouse, Ondis.

208. **Cervantes.** The chief works of Cervantes will be studied, with particular attention to the *Novelas Ejemplares* and the *Quijote*. Prerequisite, course 102. Credit, three hours. Whitehouse, Ondis.

209-210. **Old Spanish.** Readings in Spanish literature prior to the fifteenth century. The *Poema del Cid* will be read and studied and attention will be given to the development of the Spanish language. Prerequisite, course 102. Credit, one hour each semester. The staff.

211. **Spanish American Literature.** Important literary productions of the chief Spanish American countries will be read. The Modernista movement will be studied in its greatest exponent, Ruben Dario. Prerequisite, course 102. Credit, two hours. Whitehouse, Ondis.

212. **Nineteenth Century Spanish Literature.** Prerequisite, course 102. Credit, two hours. Whitehouse, Ondis.

213. **Contemporary Spanish Literature.** Prerequisite, course 102. Credit, two hours. Whitehouse, Ondis.

217. **History of Spain.** Prerequisite, course 102. Credit, one hour. Whitehouse, Ondis.

251. **Advanced Spanish.** Prerequisite, twenty hours in Spanish. Credit, one to four hours. Whitehouse, Ondis.

- a. Early period. The Epic and Chronicles.
- b. Early prose and poetry. Don Juan Manuel and the Arcipreste de Hita.
- c. The Romancero. The Romances of Chivalry and the realistic novel.
- d. Sixteenth century. The mystics. Three types of novel: Moorish, pastoral, and picaresque.
- e. Seventeenth century. The works of Cervantes, except the *Quijote*, and the chief dramatists.
- f. Development of the theatre in the seventeenth century.
- g. Recent developments in Spanish literature: novel, drama, and essay.

291. **Seminar in Spanish.** Prerequisite, course 102. Credit, two hours. Whitehouse, Ondis.

341-342. **Romance Philology (Old Spanish and Portuguese.)** See Romance Philology.

395. **Thesis.** Credit, four hours. The staff.

## ROMANCE PHILOLOGY

(See Romance Languages)

## SECRETARIAL STUDIES

**15-16. Typewriting.** Students are expected to attain a speed of thirty words a minute at the close of the first semester; forty-five words a minute at the close of the second semester. Five hours a week and three laboratory hours. Laboratory fee, \$2.00 for each semester. Credit, two hours each semester. Sponseller.

**31-32. Shorthand.** A course in Gregg shorthand. In the second semester, a student should pass the standard Gregg Writer Complete Theory Test and a five-minute sixty-word a minute transcription test. Four hours a week. Prerequisite, course 15 or with course 15. Credit, three hours each semester. Jones.

**52. Business English.** The established principles of composition are applied to business writing. Prerequisite, English 1 or 3. Credit, two hours. Reynolds.

**75-76. Stenotypy.** Four hours a week. Credit, three hours each semester. Jones.

**101-102. Secretarial Accounting.** See Accounting.

**111. Typewriting.** A course planned to develop typewriting speed and accuracy. Five hours a week and three laboratory hours. Laboratory fee, \$2.00. Prerequisite, course 16. Credit, two hours. Sponseller.

**120. Business Letter Writing.** The principles of writing business letters and reports. Prerequisite, English 4. Credit, three hours. Reynolds.

**151-152. Dictation and Transcription.** The standard of credit for the first semester is the 100-word transcription test; for the second semester, 120 word. Two hours a day, four days a week. Prerequisite, courses 16, 32. Credit, five hours each semester. Jones.

**163. Teaching of Typewriting.** Prerequisite, course 111. Credit, two hours. Sponseller.

**165. Teaching of Shorthand.** Prerequisite, course 151 or an eighty-word dictation test. Jones.

**167. Teaching of Business Subjects.** Prerequisite, junior or senior rank. Credit, two hours. Reynolds.

**171. Secretarial Theory.** Designed to give training in the operation of office machines and in the duties of a private secretary. Five hours a week. Laboratory fee, \$2.00. Prerequisite, courses 16, 32. Credit, two hours. Reynolds.

**172. Secretarial Theory.** Designed to give the student training in filing and in the use of the commercial dictaphone. Three hours a week. Prerequisite, course 171. Credit, one hour. Reynolds.

**175. Secretarial Practice.** Students spend five hours a week working in offices on the campus, and five hours in the secretarial practice laboratory

and conference. Prerequisite, courses 151, 171. Credit, four hours. Reynolds, Saum.

176. **Secretarial Practice.** Practice in the office of the Bureau of Appointments for one hour each day for a semester and field observations in the personnel offices of various industries. Weekly conferences. Prerequisite, courses 151, 171. Credit, four hours. Reynolds, Van Hamm.

180. **Operation of Office Machinery.** Three hours a week. Prerequisite, junior or senior rank. Credit, one hour. Reynolds.

185. **Office Management.** Prerequisite, junior or senior rank. Credit, two hours. Reynolds.

281. **Research in Business Teaching Problems.** Prerequisite, twenty hours in commerce and permission. Credit, two to eight hours. Reynolds.

391. **Seminar in Business Teaching Problems.** Prerequisite, twenty hours in commerce and permission. Credit, two to ten hours. Reynolds.

395. **Thesis.** Credit, four to eight hours. Reynolds.

## SOCIOLOGY

1-2. **Principles of Sociology.** An examination of the local community, of other forms of social groupings, of the structure and functions of human society and the relation of the individual to communities, groups, societies, and institutions. In the second semester the student will be directed in a comprehensive survey of the factors and forces which condition social life and of the principles which underlie social phenomena, and will be given a working mastery of the chief concepts employed as instruments for sociological investigation and interpretation. Credit, three hours each semester. Ash, Taylor.

3. **Educational Sociology.** A discussion of education as a social process, the pupil as a person and a member of various groups, the sociological basis of teaching and classroom organization, the sociological aspects of the curriculum, and the school in its relation to the community. Credit, two hours. Jeddeloh.

4. **Rural Sociology.** The course will consider the composition of the rural population, the rural family and standards of living, and an analysis of rural institutions. The fundamental differences between rural and urban groups will be considered as well as the major rural social processes. Credit, two hours. Taylor.

101. **Social Trends and Social Problems.** An attempt to apply the principles and techniques of general sociology to an analysis of major social trends and the social problems arising in connection with social change. The last part of the course is devoted to a consideration of theories and programs of social adjustment, social reorganization, and social planning. Credit, three hours. Jeddeloh.

102. **The Rural Life Movement.** The course is a general review of the

work of the various movements and agencies which have as their purpose the improvement of rural life, such as the Grange, Farm Bureau Federation, American Country Life Association, and 4H Clubs. Programs for the improvement of rural society with the problems therein involved will be discussed. Credit, two hours. Taylor.

**103. Community Organization.** The ancient agricultural community, rural community life abroad, the development of the rural community in the United States and an analysis of its present structure, and the relationship of the city and village to the farm. Typical rural areas are studied. Credit, two hours. Taylor.

**104. Sociology of Recreation.** The history and development of forms of recreation under varying social conditions, with special emphasis on the fundamental patterns of recreational activity, the psycho-sociological effect of an industrial civilization on human nature, the commercialization of recreation and its social effects, modern community programs for sports, festivals, out-door life, etc., and the constructive use of leisure time. Credit, three hours. Jeddeloh.

**105. Migration and Race Relations.** A study of racial groups in historic and contemporary society. The migrations of peoples, the problems of immigration in the United States, the national and international effects of restricted immigration, the behavior and social status of minority groups in the United States, and the problem of Americanization. Credit, three hours. Jeddeloh.

**108. Child Welfare.** A study of the conditions, problems, programs, and agencies of child welfare, and the more important techniques of study, protection, and reconstruction of children maladjusted in contemporary society. The child welfare problems in Ohio and the findings and programs of the White House Conference will find special consideration. Credit, three hours. Jeddeloh.

**109. Social Control.** A critical comparison and evaluation of the methods by which society maintains its ascendancy over the individual, creates standards of value and conduct, and unites various types and classes of people into one social body. Credit, three hours. Ash.

**110. The Psychological Factor in Human Society.** A study of the psychological conditioning of human behavior in social and cultural situations, the psychology of some social institutions, the collective behavior of masses, crowds, and organized groups, and the psychological factor in specific social problems. Credit, three hours. Taylor.

**112. Development of Western Civilization.** A comparative study of the civilizations of the Hebrews, Egyptians, Greeks, and Romans with special emphasis on those elements in their culture which have been incorporated in modern western civilization. A critical study of the processes and experiences of the peoples of mediaeval Europe in building a composite culture. Credit, three hours. Ash.

**113. Population Problems.** Population will be studied from the stand-

point of numbers and quality in the United States and other sections of the world. Differential fertility, birth control, eugenics, and other problems of population will be treated. Credit, three hours. Taylor.

**116. Cultural Anthropology.** A study of primitive people and their institutions in prehistoric and modern times for the purpose of recognizing universal human traits and the backgrounds of modern civilization. Credit, three hours. Taylor.

**118. Urban Sociology.** The study will concentrate on cities as dynamic mechanisms in modern culture. A brief survey of historical types of cities and their structures will be followed by a more intensive study of the contemporary city. The emerging theories, programs, and experiments of city and regional planning. Credit, three hours. Jeddelloh.

**121. Criminology and Penology.** The course will attempt to survey general facts with respect to crime, the criminal, and his treatment by society. Particular attention will be paid to measures and theories which point in the direction of a scientific criminology. Credit, three hours. Jeddelloh.

**122. The Family.** A historical study of human marriage and of the different types and forms of family life that have obtained at different times and among different peoples; followed by a consideration of forces and influences affecting the stability of the modern family. Credit, three hours. Ash.

**162. Teaching of Social Science.** Credit, two hours. Jeddelloh.

**201. Industrial Sociology.** The purpose of the course is to interpret and evaluate the theories and principles which underlie the present organization of business. The major emphasis will be placed upon the social consequences of the mechanical interdependence of people and of an economy of scarcity. Prerequisite, six hours in the department. Credit, three hours. Ash.

**203. Social Theory.** The sociological ideas of Auguste Comte and Herbert Spencer. The leading contributions of sociologists both abroad and in the United States down to the present. Prerequisite, six hours in the department. Credit, three hours. Taylor.

**205. Systems of Public Welfare.** Study of programs for the protection and care of socially, physically, and mentally handicapped, as expressed in legislation and in work of public departments of cities, counties, and states. Attention will be given to changing functions of governmental departments and to the development of preventive and constructive services. Prerequisite, six hours in the department. Credit, three hours. Shannon.

**206. The Rural Social Survey.** An application of the scientific method to the problems of rural society. The general technique and methods of rural social investigations and the appraisal of rural social resources. The manner of collecting, tabulating, classifying, analyzing, and drawing conclusions from rural social data. Prerequisite, six hours in the department. Credit, three hours. Taylor.

**207. Sociology of Religion.** A study of the origins of religion and of primitive religious practices, the rise of institutional religions, and the rami-

fications of religion in modern social life. Prerequisite, six hours in the department. Credit, three hours. Ash.

**210. Contemporary Social Movements.** The better known utopian and socialistic philosophies. The two significant social experiments of the present time, viz. communism and fascism. The more recent proposals for achieving a planned and controlled social order. Prerequisite, six hours in the department. Credit, three hours. Ash.

**212. Juvenile Delinquency.** Causative factors in juvenile delinquency, characteristics of delinquents, community control of delinquency, juvenile court procedure, probation, and correctional training in institutions. Field contact and the handling of realistic data. Prerequisite, six hours in the department. Credit, two hours. Jeddeloh.

**213. Field Work in Rural Society.** A laboratory course in which individual projects of investigation of rural social problems will be taken up. Prerequisite, twelve hours in the department. Credit, three to five hours. Taylor.

**215. Poverty and Economic Insecurity.** A study of poverty and economic insecurity in contemporary society with emphasis given to measures of treatment and prevention. The movement for social insurance, and recent legislation for social security in the United States will receive major consideration. Prerequisite, nine hours in the department. Credit, three hours. Shannon.

**216. Propaganda.** A study of the methods and technique of propaganda, its legitimate uses and its abuses, its relation to such social phenomena as stereotypes, sentiments, public opinion, social attitudes, and mass convictions. Prerequisite, nine hours in the department. Credit, three hours. Ash.

**219-220. Social Service.** Social case work with attention to problems of individuals and families in their social relationships. In the second semester there will be emphasis on family social work and social case work with children. From five to seven hours a week in practical field work in social agencies of the county. Prerequisite, twelve hours in the department. Credit, five hours each semester. Shannon.

**223. Institutional Social Service.** Internship in correctional institutions and institutions for the care of children. The course includes training in staff duties at the institution under the immediate supervision of the institutional staff. Prerequisite, twelve hours in the department.- Credit, five hours. Jeddeloh.

**225. Internship Training in Juvenile Courts.** The course includes regular full time staff duties in juvenile courts under controlled conditions supplemented by additional training by officers of the courts and members of the department. Prerequisite, courses 212, 220. Credit, six hours. Jeddeloh.

**226. The Unadjusted Child in School and Community.** A study of the principles and theories underlying the general program and work of the visiting teacher. Prerequisite, eighteen hours in the department. Credit, three hours. Shannon.

227. **The Visiting Teacher.** The course is designed primarily to provide field work, laboratory experience, and practical training for the profession of visiting teacher. Prerequisite, eighteen hours in the department. Credit, five hours. Shannon.

301. **Technique and Methodology of Social Investigation.** Analytic study of representative examples of recent sociological research, and applying the experience gained to the investigation of social problems of limited compass. Prerequisite, twelve hours in the department. Credit, two or three hours each semester. Ash, Jeddeloh, Taylor.

391. **Seminar in Sociology.** Prerequisite, fifteen hours in the department. Credit, two or three hours. The staff.

395. **Thesis.** Credit two to four hours. The staff.

## SPANISH

(See Romance Languages)

## SPEECH

(See Dramatic Art)

## STATISTICS

155-156. **Business Statistics.** Statistical methods with particular emphasis on their application to the analysis of business and economic problems. Prerequisite, junior standing. Credit, two hours each semester. Paynter, Ray.

(See Education and Mathematics)

## SUPERVISION AND GUIDANCE OF STUDENT LIFE

391. **Seminar in Student Life.** A study of the management and direction of women's dormitory units: personality and health adjustments, the objectives and philosophy of extra-class activities, orientation of freshmen to college life. The relationship between the academic and the social life of students will form the basis of discussion and reports. Problems will be discussed from the standpoint of the psychological, sociological, and academic bearings on student life. Credit, three hours each semester. Voigt.

395. **Thesis.** An original research problem immediately related to the field of administration and counselling shall constitute the basis of the thesis. Credit, three to six hours. Voigt.

## ZOOLOGY

1-2. **General Biology.** A survey of biological principles. Topics considered are: general physiological principles; brief review of the plant and animal groups including reference to their economic importance, habits, and

life histories; facts and factors in the distribution of plants and animals and the relation of these to their surroundings; evolution; and principles of heredity. Two lectures and two laboratory hours a week. Laboratory fee, \$3.00 each semester. Credit, three hours each semester. Kreckler, Miller.

**3-4. General Zoology.** An introductory course in zoology. Topics considered are: the organization and functions of a typical animal; review of the animal kingdom, including reference to economic importance, habits, and history; the relation of animals to their environment; the doctrine of evolution; and the principles of heredity. Two lectures and two laboratory hours a week. Laboratory fee, \$3.00 each semester. Credit, three hours each semester. Frey, Stehr.

**101. Zoology—Pre-medical.** An introductory course in zoology for pre-medical students. Topics considered are: the structure and function of animals, including metabolism, irritability, growth and reproduction, and the development of organ systems as illustrated by the invertebrates; economic and ecological relationships; the doctrine of evolution; and the principles of heredity. Two lectures and four laboratory hours a week. Laboratory fee, \$4.00. Credit, four hours. Kreckler.

**103. Readings in Biology.** A course for students interested in advances in biological fact and thought, especially as applied to the field of human affairs. Laboratory fee, \$1.00. Prerequisite, high school biology or course 2. Credit, one hour. Kreckler.

**107. Principles of Heredity.** An introduction to the subject of heredity. The course begins with a discussion of the fundamental principles and mechanism of heredity followed by a review of what is known regarding heredity in man. Consideration is given to practical applications of heredity in social welfare, public affairs, and race betterment. Prerequisite, course 2, 4, or 101. Credit, three hours. Kreckler.

**110. Organic Evolution.** A consideration of the evidence for evolution and the factors involved in the process, theories of the method of evolution, and the history of the evolutionary conception as they pertain to human civilization. Prerequisite, course 2, 4, or 101. Credit, three hours. Miller.

**112. Comparative Vertebrate Anatomy.** A comparative study of the skeleton and organ systems of selected vertebrates such as the shark, frog, turtle, and mammal. Required of pre-medical students. Two lectures and four laboratory hours a week. Laboratory fee, \$4.00. Prerequisite, course 4 or 101. Credit, four hours. Elliott.

**115. Elements of Anatomy.** A study of the anatomy of a mammal illustrated by the dissection of a cat. Attention will be given chiefly to the skeleton, muscles, and viscera. Designed for physical welfare students and majors in zoology with the exception of pre-medical students. Two lectures and two laboratory hours a week. Laboratory fee, \$3.00. Prerequisite, course 2, 4, or 101. Credit, three hours. Elliott.

**117. Sanitation.** A study of environment in its relation to human welfare. Subjects considered are: air, food, water, and milk as vehicles of infec-

tion; water purification and sewage disposal; camp and rural sanitation; and swimming pool sanitation. These subjects are considered as sources of communicable diseases, attention being given to the mode of transmission and to methods of instituting proper means of control in each case. Designed for students in the Department of Physical Welfare. Prerequisite, course 2, 4, or 101. Credit, two hours. Frey.

**119. General Entomology.** A study of the structure, habits, and life-histories of insects, with practice in collecting, mounting, and identification. Two lectures and four laboratory hours a week. Laboratory fee, \$4.00. Prerequisite, course 2, 4, or 101. Credit, four hours. Stehr.

**125. Elementary Physiology.** A course in human physiology which considers the general physiological principles of irritability, muscle and nerve physiology, blood, circulation, respiration, digestion, nutrition, excretion, central nervous system, special senses, reproduction, and the endocrine glands. A knowledge of chemistry is desirable. Two lectures and four laboratory hours a week. Laboratory fee, \$4.00. Prerequisite, course 2, 4, or 101. Credit, four hours. Rowles.

**128. Histology.** A study of tissues illustrated by vertebrate material to acquaint the student with the finer structure of the skeletal, muscular, digestive, circulatory, respiratory, urinary, reproductive, and nervous systems. Two lectures and four laboratory hours a week. Laboratory fee, \$4.00. Prerequisite, course 112 or 115. Credit, four hours. Elliott.

**131. Vertebrate Embryology.** A course in the development of vertebrates illustrated by the chick and the pig. A preliminary consideration of maturation and fertilization followed by a study of the formation of foetal membranes and the development of the various organs. Two lectures and four laboratory hours a week. Laboratory fee, \$4.00. Prerequisite, course 112. Credit, four hours. Elliott.

**133. Animal Microtechnic.** A course in the principles and methods of preparing animal material for microscopic study. The student is given practice in fixing, embedding, sectioning, staining, and mounting tissues. Principles of the microscope and its accessories are studied. One lecture and six laboratory hours a week. Laboratory fee, \$3.00. Prerequisite, course 2, 4, or 101. Credit, three hours. Elliott.

**135. Principles of Physiology.** Fundamental principles involved in the activity of living things, the physical-chemical composition of living material, the functions of cell components, properties of solutions, membrane phenomena, amoeboid and ciliary movement, muscle and nerve, enzymes, secretions, and biological media. A knowledge of elementary physics is desirable. Two lectures and six laboratory hours a week. Laboratory fee, \$4.00. Prerequisite, course 2, 4, or 101. Credit, four hours. Rowles.

**141. General Bacteriology.** A study of the structure, classification, and relationships of bacteria, preparation of cultures, staining-technic, and biochemical reactions. One lecture and five laboratory hours a week. Laboratory fee, \$4.00. Prerequisite, course 2, 4, or 101. Credit, four hours. Frey.

**145. Clinical Technic.** A course in the theory and practice of making the various tests used in laboratories of clinical pathology: blood counts, blood matching and typing, blood chemistry, urinalysis, gastric analysis, sputum examinations, functional tests, serological methods including Wasserman's, applied bacteriology, and the making of vaccines. Laboratory fee, \$1.00 for each credit hour. Prerequisite, course 141 and permission. Credit, two to eight hours. Frey.

**161. Teaching of Zoology.** Laboratory fee, \$2.00. Prerequisite, course 2, 4, or 101, and an additional laboratory course in zoology. Credit, two hours. Stehr.

**202. Mammalian Anatomy.** The anatomy of mammals with particular emphasis on the cat. Two lectures and four laboratory hours a week. Laboratory fee, \$4.00. Prerequisite, course 112 and four additional hours in the department. Credit, four hours. Elliott.

**204. Vertebrate Neurology.** A comparative study of the brain and spinal cord of mammals with emphasis upon the reaction systems. A brief preliminary study of the embryological development and general histological structure of the nervous system. Dissections of the brains of shark, sheep, and man are made and followed by a microscopic study of various levels of the brain and spinal cord. Six lectures and four laboratory hours a week. Laboratory fee, \$4.00. Prerequisite, course 112 and four additional hours in the department or fifteen hours in psychology. Credit, four hours. Elliott.

**206. Comparative Invertebrate Physiology.** An application of the fundamental principles of physiology to the invertebrate groups. The course includes circulation, respiration, digestion, nutrition, excretion, reproduction, nervous system, and irritability including behavior; and a study of the effect of changing environmental factors on these mechanisms. Two lectures and four laboratory hours a week. Laboratory fee, \$4.00. Prerequisite, course 135. Credit, four hours. Rowles.

**207. Mammalian Physiology.** A study of the physiology of mammals: blood and lymph, heart and circulation, respiration, digestion, metabolism, endocrine glands, excretion, special senses, central nervous system, and reproduction. Two lectures and four laboratory hours a week. Laboratory fee, \$4.00. Prerequisite, course 135. Credit, four hours. Rowles.

**210. Biological Chemistry.** The course embraces a brief introduction to physical chemistry of true and colloidal solutions; fundamental principles of enzyme action; chemical nature of and tests for: carbohydrates, proteins, fats, digestion and metabolism; chemical analysis of: blood, lymph, bile, faeces, milk, epithelial and connective tissue and urine. Two lectures and four laboratory hours a week. Laboratory fee, \$4.00. Prerequisite, course 135 and chemistry 116, 119. Credit, four hours. Rowles.

**212. Pathogenic Bacteriology.** A consideration of bacteria in relation to human disease: the culture and identification of disease producing bacteria, protozoa, higher fungi, and filterable viruses; methods of transmission and means of protection; and their disease symptoms and immunity. Two lectures

and five laboratory hours a week. Laboratory fee, \$4.00. Prerequisite, course 141. Credit, four hours. Frey.

216. **Animal Parasites.** A study of parasites in relation to human disease: the parasites infesting man, their life histories, the diseases they produce, means of prevention and cure. Two lectures and four laboratory hours a week. Laboratory fee, \$4.00. Prerequisite, course 112. Credit, four hours. Miller.

218. **Economic Entomology.** A survey of the insects of economic importance in the United States with special reference to those species common in southeastern Ohio. Emphasis will be placed on life histories, types of injury, habits, and control measures. The course will alternate with course 220. Two lectures and four laboratory hours a week. Laboratory fee, \$4.00. Prerequisite, course 119. Credit, four hours. Stehr.

220. **Advanced Entomology.** Intensive study of insect morphology and of the principles and methods of insect classification and identification, with special emphasis on the more extensive orders. Two lectures and four laboratory hours a week. Laboratory fee, \$4.00. Prerequisite, course 119. Credit, four hours. Stehr.

225-226. **Advanced Invertebrate Zoology.** A study of the structure, relationships, and life histories of representative members of the various invertebrate phyla, together with related general principles. Two lectures and four laboratory hours a week. Laboratory fee, \$4.00 each semester. Prerequisite, ten semester hours in the department and permission. Credit, four hours each semester. Stehr.

228. **Animal Ecology.** A study of animals in relation to their surroundings. Discussion of the general principles governing animal distribution and animal association. Two lectures and four hours of field or laboratory work a week. Laboratory fee, \$4.00. Prerequisite, ten semester hours in the department and permission. Credit, four hours. Stehr.

233. **Biology of Vertebrates.** A study of the vertebrates emphasizing their identification, life histories, habits, distribution, and economic importance. Two lectures and two laboratory hours or field work a week. Laboratory fee, \$3.00. Prerequisite, course 228. Credit, three hours. Miller.

243. **Biological Studies.** Semi-independent studies under the guidance of an instructor. Laboratory fee, \$1.00 for each credit hour. Prerequisite, ten semester hours in the department and permission. Credit, two to eight hours each semester.

a. **Bacteriology**—Studies in water, dairy, and pathogenic bacteriology, and in serology. Frey.

b. **Ecology**—Field and laboratory studies of the relation between animals and their surroundings. Krecker, Stehr.

c. **Entomology**—Studies in classification, structure, life histories, and economic aspects of insects. Stehr.

d. Genetics—Breeding experiments, statistical studies, and library work in the field of heredity. Miller.

e. Invertebrate Zoology—Studies in invertebrate animals. Kreckler, Stehr.

f. Parasitology—Studies in animal parasites. Kreckler.

g. Physiological Zoology—Physiological and related experimental studies. Rowles.

h. Readings in Biology—Readings dealing with biological history, theory, and advances. Kreckler.

i. Technicians' Methods—The technic and theory of blood, urine, gastric analysis, fecal examination, and serological methods. Frey.

j. Vertebrate Anatomy—Studies in gross and microscopic anatomy of vertebrate animals. Elliott.

**381. Research in Biology.** Research work in bacteriology, ecology, entomology, invertebrate zoology, parasitology, physiological zoology, and vertebrate zoology. Laboratory fee, \$1.00 for each credit hour. Prerequisite, twenty semester hours in subjects related to the field of investigation, and permission. Credit, two to eight hours. Kreckler, Rowles, Elliott, Frey, Stehr.

**395. Thesis.** Credit, three hours. Kreckler, Rowles, Elliott, Frey, Stehr.

## DEGREES AND DIPLOMAS GRANTED IN 1935

FEBRUARY 1, 1935

## MASTER OF ARTS

Irene Lucile Devlin

## BACHELOR OF ARTS

H. Jean Bowyer	*Marie Josephine Isselstein
Anne Virginia Bradbury	Charles McKinley
Don Capilongo	*Waid Cross Radford
Marcella Ruth Cooper	Irving Rosner
Denis K. Cope	*Robert Briggs Selover
**Stephen Davidovich	**John Russell Stockham
*Eleanor Beasley Elliott	*Emerson Seymour Stout
John Rigdon Elliott	Louis Hiram Swart
**Mildred Mae Fisher	Henry Winson Tremaine
George S. Fitzgerald	*Kenneth Winetrout
Milton Gross	*Jesse A. Zousmer

## BACHELOR OF ARTS IN COMMERCE

Homer C. Dorman	George T. Smies
*Richard Lee Loesch	Gerald G. Wood
Edwin Frank Shearman	

## BACHELOR OF SCIENCE IN EDUCATION

Earl James Braund	Harold Arthur Meyer
*Edna K. Connor	Henry Harvey Meyerowitz
**Seymour M. Finger	Ernestine Cannon Mingus
Granville S. Hatfield	Sidney John Parker
Elizabeth Ann Jones	Robert Howard Riggs
Louis Everett Katz	Luther Daniel Schramm
**Hedwig R. Keller	William Howard Shaver
Arch Knowlton	Herman G. Wagner
Charles Joseph McCarty	William Wendell Williams
Samuel Bowyer McCulloch	Reba Marvene Wolfe
Mary Olive McNeal	

## ELEMENTARY EDUCATION (Two Year)

Una Hoy Bibler	Dorothy Lee Ross
Margaret Burdette Dwyer	Leah Frances Spillman
Margaret Elizabeth Goddard	Lucille L. Thomas
Margaret Virginia Hadley	Geraldine Ferne Williamson
Hilda Mae LaRheir	

\*With High Honor

\*\*With Highest Honor

## KINDERGARTEN-PRIMARY (Two Year)

Faye D. Smith

Marie Sarah Southam

## COUNTY EDUCATION (Two Year)

Mary Belle Cole

Mary Frances Lyle

Margaret Lorena Hart

Carmon Dorris Ross

## JUNE 3, 1935

## MASTER OF ARTS

Frederick Wayne Adrian

Guy Edwin Saylor

Faye Campbell

Ray Shields Williams

LeRoy E. Colby

C. Dale Wilson

Donald Dean Fontaine

Frances Arline Young

Thomas H. Johnson

## BACHELOR OF ARTS

Margaret Wilma Alcorn

Dora Evelyn Ervin

Joseph Mario Alloro

\*\*Margaret Louise Farmer

\*Ralph William Arnold

Robert H. Felty

Theodore Alfred Awerman

Albert Painter Flack

Willison Howard Beebe

Eleanor Murray Fleming

\*\*Katherine Deane Beverstock

Howard Martin Fleming

Robert Frederick Blank

Howard Bert Fuller

\*Gerald Warren Blanton

Roy F. George

David Emory Bollinger, Jr.

William M. Gianquinto

James Russell Bone

James Rolfe Gilmore

John W. Brocker

Michael A. Giuliani

\*\*Jacob B. Burke

\*\*Bernard E. Goldstein

Wendell Wilbur Burton

Samuel Murray Goldstein

Alvah Elwood Caliman

Milton Golubchik

John Cardasis

Glenn Theodore Gourley, Jr.

Cosmo Ambrose Carlini

\*Mary Carolyn Graff

Dwight Wesley Cave

\*Ruth Augusta Granger

Leo A. Charles

Eldon C. Grover

Jack Lee Chasin

Mary Virginia Hamilton

\*Arabelle Louise Chute

\*William Norman Harris

Clifton L. Coleman

Margaret Haskins

\*Geneva Mary Coleman

Bernard Ralph Hayes

Alfred Thomas Craft

Beulah Faye Heestand

\*Virgil Lee Cross

Meade Sanford Heeter

Quindie Dalisio

Axel Einar Helander

William Webster Dalton

Flo Virginia Hess

\*Thomas Xerxes Dombrowski

Victor Joseph Hug

\*Evelyn Eichinger

\*Diora Elizabeth Hyre

\*With High Honor

\*\*With Highest Honor

- |                                  |                              |
|----------------------------------|------------------------------|
| **Heber W. Johnson               | Elmer R. Price               |
| David Paul Jones                 | **Charles Adolphis Priode    |
| George Fred Jones                | Nancy Clare Reed             |
| Joseph Kaplowitz                 | Dorothy Virginia Robbin      |
| John Jacob Karboian              | Phyllis Pettit Ross          |
| *Anne Bernice Kidd               | Wilbur Eugene Schaffer       |
| Ezra Rexford Koons               | *Beulah J. Scheffel          |
| **Mary Kupir                     | William F. Schreiber         |
| Foch Pui Lamb                    | Albert William Seaman        |
| **Harold Landrum Lee             | Clifford Herbert Selden, Jr. |
| Graham Albert Lynch              | Joseph John Shedan           |
| Hester Elizabeth McClaffin       | Elva Eugene Sheets           |
| *Celeste M. McCutchan            | George X. Simonetta          |
| Samuel Gow McEldowney            | **Noah Wilford Skinner       |
| Narwista Pauline McKee           | Josephine B. Smith           |
| Dwight Copley McKeown            | **Robert Sprague Srigley     |
| Louis A. Mader                   | Don Ernest Thatcher          |
| *Kathryn Elizabeth Mallett       | Marian Elizabeth Thimmes     |
| **Julia V. Malo                  | Arthur T. Thomas             |
| *Nellie Michael                  | Louise Ware Turpin           |
| Charlotte MacKay Miller          | Mary Uible                   |
| *Leonard Montag                  | Martha Louise Wendell        |
| Patrick William Nolfi            | Jane Charlotte Werner        |
| *Donna Rae Ormsby                | William D. Whaley, Jr.       |
| Alexander Konstantine Philipides | **Annalee Hope Wilder        |
| *Margaret Townsend Porter        | Ruth Elizabeth Workman       |
| James Fredric Powell             |                              |

## BACHELOR OF ARTS IN COMMERCE

- |                         |                         |
|-------------------------|-------------------------|
| *Charles Eugene Batten  | Earl Samuel Mawhinney   |
| Ted Stevens Cooper      | Dorris Wylie Nicholes   |
| Harold A. Fisher        | Anthony J. Race         |
| Robert Hugh Freeman     | Thomas David Rose       |
| Robert Leon Glick       | Claude Arthur Rudd      |
| Lewis Edward Hamlin     | John Herbert Schervish  |
| Harry Wesley Herdman    | William Henry Seaman    |
| W. Burton Kinney        | John T. Sheridan        |
| John William LaFrance   | Peter Smith             |
| Herbert Richard Lassman | William Wesley Thompson |
| Sam Levine              | Gerald Barker Tuttle    |
| *Eric McInnes           | Frank Davis Wilkin      |
| Kenneth Raymond McKean  |                         |

## BACHELOR OF MUSIC

- \*\*Adrienne M. Wright

\*With High Honor  
 \*\*With Highest Honor

## BACHELOR OF SCIENCE

Barbara Kirk Brainerd (Medical Technology)	Arthur William Kirkland (Physics)
Joseph George Carr	Robert Dale Sherlock (Chemistry)
Josef Edinger Clark	Leslie A. Sherman (Chemistry)
Carlos Franklin Cowen (Chemistry)	Paul John Zimmerman (Chemistry)
Arthur James George (Chemistry)	Michael J. Zunick (Chemistry)
Clyde Edgar Gleim (Chemistry)	
*Robert Thomas K'Burg (Chemistry)	

## BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

*Bert Andrew Coss	Paul Webster Shearer
Raymond Edwin Dauber	Claude Behnke Smith
Raymond Hays	William Conley Smith
Rubin Katz	*Robert Carlton Woltz
John Bishop Selover	

## BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Richard Henry Helmick	Harley Andrew Spires
Frank C. Hoffman	Lloyd Thomas
John J. Jago	Gildo Claude Tomaselli
Albert Charles Joyce	

## BACHELOR OF SECRETARIAL SCIENCE

Carol Ione Creed	Harriett Eleanor Wilson
Helen Marie Williamson	

## BACHELOR OF SCIENCE IN EDUCATION

Nathan Ackerman	Betty Hack Chrisman
Elden A. Armbrust	Emanuel Cohen
Victor R. Batterson	*Margaret Katherine Conklin
Bernard William Berens	Paul Vernon Coulter
F. Dale Bethel	*Doris Covey
*Charles H. Bing	Grace Elizabeth Crow
John Robert Boyd	Nick Louis Dahar
**Katherine Boyd	*Henry Clarence Davis
*Dorothy Kathryn Bradshaw	Ruth Ellen Davis
John Franklin Burnison	Esther Imelda Donnally
Laura Maurine Burnside	Helen Fay Drake
Elmon Cleveland Caudill	Frieda T. Dreger
Karl George Chesnutt	Albert Raymond Durose
James A. Chilcote	Roberta Esther Early

\*With High Honor

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Anas Elliott  
 Justina Katherine Evans  
 Nelle Edleen Ferguson  
 F. Harry Fletcher  
 Irvin Daniel Fouss  
 Brooks Dudley Franks  
 Joe Winslow Gamertsfelder  
 Dwight Brohard Gaskill

\*Helen Gerke

Mildred Mae Gillett  
 Joseph Henry Glander  
 Carlton Goodney  
 Martha Frances Green  
 Nettie Allene Grimshaw  
 Doris Margaret Grove  
 Philip Joseph Gullo  
 Clarence Robert Gustke  
 Grace Vergene Guth  
 Patsy Gwinn

\*Peggy Hack

Roberta Mae Hagmaier  
 Mary Mildred Hammond  
 Paul Allen Hange  
 John Hedu  
 Mary Elizabeth Hilles  
 Christine Hindman

\*Jeanne Louise Huffman

Grace Susan Hug  
 John Jacob Ivary  
 Ruby Elizabeth Joiner  
 Morgan D. Jones  
 Marjorie Emily Kahler  
 Irving Jack Kaplowitz  
 Mary Margaret Kelley  
 Doris Elizabeth Kemp  
 Charles Joseph Kessler  
 Estelle L. Kniffin  
 Ruth Elizabeth Knoch  
 Harold Goff Koerber  
 Louis Leo Krantz  
 William Henry Krapohl  
 Dwight Paul Kuhn  
 Victor Kuzman  
 Harlan H. Laskin

\*Roberta Law

Fern King Leckrone  
 Joseph Jacob Lerner  
 Larry V. Lewis

Margaret Elizabeth Lindley  
 Betty Abigail Lope  
 Lee William McComas  
 Ralph E. McDermott  
 Adine Carol Maag  
 Mary Kathryn Maley  
 Edna Lucile Mann  
 Doris Grace March  
 Robert M. Markley  
 George A. Marshall  
 Faith Massie

Lucy Fippin Mathews

\*Elizabeth Jane Miller

\*Leslie Haynes Miller

Christine Merle Mingus  
 Ruth Frances Murphy  
 Marjorie Ruth Nau  
 Herman Edward Newcome  
 Clifford Albert Newell  
 Mary Elizabeth Niederauer  
 Margaret E. Perkins  
 Anna Virginia Postlewait  
 Walter Edward Priode  
 Virginius Lee Prior

\*Dorothy Louise Radford

Pearl Arthur Reichley  
 Margaret Isabel Robinson  
 Ethyl Rose  
 George F. Rutkoskie  
 Maxine A. Sale  
 Anthony Paul Salvaggio  
 Mildred E. Schaefer  
 Paul Lewis Schell  
 Theodore Scherzer  
 William James Scullion  
 Norman Edward Sepler  
 \*Dorothea Virginia Shannon  
 Mildred Louise Shiach  
 Fred R. Sigrist

\*Martha Eleanor Smith

Amos C. Snide  
 Samuel James Spataro  
 Dorothy Willans Stark  
 Edna Mae Stauffer  
 Sylvester L. Stephan  
 Inez Luvera Sturzinger  
 Asa Kimball Suiter  
 Myrtle Aylmour Tencate

\*With High Honor

\*\*With Highest Honor

Francis Brice Thompson  
 Eleanor M. Thornberry  
 Marie Throckmorton  
 Eleanor Lorette Thwing  
 \*Margaret Louise Vandenbark  
 Neville Owen Wagstaff  
 Helen Naomi Waldon  
 Martha Katherine Walker  
 Helma Paulina Weaver  
 \*Anna Ruth Wendelken

Grace Wentz  
 \*\*Martha Juanita White  
 James Robert Wiand  
 \*David W. Williams  
 \*Mary Lodge Williams  
 Mary Lillian Willsie  
 Ada Margaret Wilson  
 Alice Mae Wilson  
 Vernett O. Wolfe

## ART SUPERVISION (Four Year)

John Robert Boyd  
 John Hedu  
 Ruby Elizabeth Joiner

Mary Roberta Law  
 Anna Ruth Wendelken  
 Mary Lodge Williams

## ELEMENTARY EDUCATION (Two Year)

Margaret Chilcote  
 Helen Lucile Cleary  
 Beulah M. Craig  
 Carrie Lucille Dalton  
 Catherine Davis  
 E. Rosalie Davis  
 Frances May Davis  
 Laura M. Denny  
 Bernice Berdell Doron  
 Flora DuBois  
 Geneva Winnifred Elliott  
 Marie Elswick  
 Helen Elizabeth Freyermuth  
 Nellie Pauline Fullwiler  
 Mary Louise Geiger  
 Ethel Loretta Gray  
 Sara Jane Greenlee  
 Helen Genevieve Hampshire  
 Mary Eunice Haney  
 Ina Carrie Haubeil  
 Eleanor Margaret Hearing  
 Eleanor Johnson

Martha Dessa Kirkland  
 Clara Elizabeth Leasure  
 Dorothy Irene Ledlie  
 Clarice Belle McDaniel  
 Marie Ellen McDermott  
 Margaret Ellen Murphy  
 Mae Elizabeth Nelson  
 Hazel Marcella Ralston  
 Jean Elizabeth Rambo  
 Gwendolyn Almerna Reger  
 Dollie Winifred Richards  
 Ruth June Richards  
 Wilda Mae Saffell  
 Viva Kathryn Slater  
 Elma Kathryn Smith  
 Marjorie Frances Smith  
 Dorothy Irene Staley  
 Shirley Maxine Vesey  
 Harriett Adlyn Waggoner  
 Martha Katherine Walker  
 Veneta Eleanor Wilson  
 Edith Woodruff

## KINDERGARTEN-PRIMARY (Two Year)

Agnes Lucille Angle  
 Margaret Louise Bauman  
 Frances Florene Blackmer  
 Mabelle Virginia Crane  
 Helen Elizabeth Culp  
 Reva Celeste Erlewine

Mary Martha Flood  
 Elizabeth Gertrude Gibb  
 Mary Margaret Kirkpatrick  
 Helen Kathleen McMasters  
 Mary Ellen Molitor  
 Margaret M. Peters

\*With High Honor  
 \*\*With Highest Honor

## COUNTY EDUCATION (Two Year)

Beulah Allison	Raymond Pfleger
John D. Archer	Wilma Lucille Piper
Stephen John Benedict	Ray Harding Rudolph
Dorothy Mae Burden	Gladys Schaal
Mary Christine Finsterwald	Charles Siegle Thomas
Fred Treston Gill	Ruth Marie Tripp
Dwight Spearman Greer	Lloyd E. VanNest
Glenn Francis Jarvis	Harold K. Welker
Goldie Marie Newhart	Mildred Rebecca Wright
Margaret Lucille Norris	Mabel Josephine Young
Susie L. Osborn	

AUGUST 2, 1935

## MASTER OF ARTS

Leland Wallace Boord	Opal Audra McWhorter
Allan Cree	Margaret Alice Spaulding
Ruth Jane Cyfers	Charles Robert Tarzinski
Esther Louise Hoyt	Lena Munn Wondrack
Robert Carl Kinney	

## BACHELOR OF ARTS

Harry Eugene Aldrich	*Mabel Pearl Lash
*Catherine Blankenship	Clinton Blair McKnight
Raymond Breitbart	**Josephine Pamela McVay
Samuel Ernest Brescia	Victor Kerr Miller
**William Nelson Brown	Joseph Peter Paolillo
*John W. Foster	Paul Pesach Rissin
Ben Maurice Goldberg	*Pauline Gertrude Vaupel
Rachel Olive Karnes	

## BACHELOR OF ARTS IN COMMERCE

Harold William Calloway	C. Lawrence Finger
William J. Daugherty	Robert Meredith Henry
Paul Edison Dean	Richard Vincent Jacoby

## BACHELOR OF SCIENCE IN CHEMISTRY

Eric G. Olmosk

## BACHELOR OF SCIENCE IN EDUCATION

Mary Matilda Adam	Nina Gertrude Andrews
Alice Lorene Allen	Arrilla Athey
Doris Edith Allen	**Neva Mildred Baumgarten
Eleanore Ross Allison	Catherine Ruth Bischoff

\*With High Honor

\*\*With Highest Honor

John Donald Bradford	Fannye Wood King
Colbert Wesley Brown	Margaret Dorothy Klose
Thomas N. Brown	*Edna Irwin Koste
Guy Bumgarner	Orval Freeman Leckrone
Francis William Burdell	Neva Lucille Lee
Harold Ronald Burstein	Estella Mae Linton
Lucille Pauline Carter	Edith Mabel Lowe
Jean Chaboudy	*Clyde William Lynn
George Emerson Christman	Paul Gilmore Lyon
Mary Kathryn Chute	Willia McDonnell
John Henry Clark	Alexander Marks
Hubert Leon Clay	Neva A. Masterson
Wilbur Ely Clemmer	Gomer Evan Moore
Oakley C. Collins	Harold O'Donnell
Margaret Mary Cronin	Floyd Edward Oberholzer
Lelia Isabel Culver	Leonard Panker
Gerald Ross Cummings	*Louise Baughman Parker
Esta Leona Cunningham	Hazelle Mary Payne
*Harold Duduit	Mary Eleanor Pierce
Mae Foley Duffy	William Oscar Porter
Winfred K. Dumm	Harriet Lamb Putnam
Corwin Joseph Ensley	Nina Louella Rhodes
William Donald Foglesong	Frances Helen Runyon
Clark Milton Fouts	Bernice Pauline Russell
Hazel Lura Fouts	Irving Ira Sisselman
Herman Ray Frame	*Fanny Fern Smith
Charles Albert Frecka	*Nell Lavinia Smith
*Wilma H. A. French	Lemuel Jacob Starr
*Marguerite Morrison Fulks	*Pearl Elizabeth Starrett
Nelson Selby Gardner	Edna Grace Steele
Frederick William Good	Madeline Lee Stone
*May Green	Cleo Agnes Sweeney
Ola Lorenzo Hall	Jessie Avrell Talbott
Edith Kepler Hardy	Edythe Naomi Turner
**Charles A. Holschuh	Mary Elizabeth Ward
Geneva Humphreys	Eva Annestine Warner
Altha A. Jackson	Everett B. Webb
*Mabel Florence Jeffers	May Ethel Weston
Katherine E. Jenkins	Julia Viola White
Elizabeth Johnson	Edithe Pearl Wolfe
Anna Vivian Keller	Nellie Bertine Woolley
Harold Edwin Keller	Harry W. Zipperman
Verna Elizabeth Keller	

## ELEMENTARY EDUCATION (Two Year)

Virginia Arsu	Henrietta Marvene Black
Frances Eltha Bailey	Margaret May Crouch
Carmel Elaine Berardi	Farie Vienna Erlewine

\*With High Honor

\*\*With Highest Honor

Elizabeth Evans  
 Mary Elizabeth Gillilan  
 Lela Eloise Jeffers  
 Genevieve Frances Kenney  
 Alice C. Kirkpatrick  
 Margaret Evangeline Lane  
 Walter Joseph McCarthy  
 Harriett Eleanor McIntosh  
 Frances Margaret McLain  
 Hannah Elizabeth Martin  
 Berenice Juanita Mills  
 June Ann Moore  
 Margaret Mary Moore

Madeline Grace Morgan  
 Lela Rowena Peltier  
 Capitola Radwell  
 Marcella Lois Reibel  
 Kathleen Ida Rolf  
 Clinton Blaine Sells  
 Georgia Pauline St. Clair  
 Ruby Frances Thorla  
 Irene Freda Varner  
 Martha Adeline Walker  
 Gladys Terrell Webb  
 Alfreda Irene West  
 Mary Edna Will

#### KINDERGARTEN-PRIMARY (Two Year)

Eleanor Johnson  
 Margarette Louise Lewis  
 Ora Pauline Mora  
 Gladys E. Rider

Eleanor Mae Roberts  
 Dorothy Madaline Smith  
 Florence Evelyn Wise

#### COUNTY EDUCATION (Two Year)

Clement William Bock  
 Lois Irene Border  
 Hazle E. Chilcote

Glenn Harris Gardner  
 Garen Alexander Roush  
 Bernice M. Wallenfelsz

### AUGUST 23, 1935

#### MASTER OF ARTS

Bess L. Odell

Sidney John Parker

#### BACHELOR OF ARTS

Chester Clayton Barnett  
 Robert R. Crawford  
 Joseph Robert Gerber

\*Lillian Hauschildt  
 Ray Agnew Varner  
 Alexander Baird Whittaker, Jr.

#### BACHELOR OF SCIENCE IN EDUCATION

Tom C. Battin  
 \*Gladys Opal Bethel  
 Adrian Benjamin Collins  
 \*Helen Esther Coulter  
 James LeRoy Dillehay  
 Maurice Ralph Elliott  
 Mabel Alta Greathouse  
 Goldie Greenfield  
 Mary Elizabeth Guy  
 \*Elizabeth Smith Hippel  
 \*Ida Kate Knisley

\*Lawrence Ray Litten  
 Beatrice Mary Miller  
 Lawrence Denver Modesitt  
 \*Bessie Ellen Phetteplace  
 \*\*Rose Shulman  
 \*\*Sadie Shulman  
 Myrtle Marie Slater  
 Carrye Edith Smith  
 Richard Taylor White  
 Lenna Elizabeth Whitmore

\*With High Honor

\*\*With Highest Honor

## ART SUPERVISION (Four Year)

Mary Elizabeth Guy

## ELEMENTARY EDUCATION (Two Year)

Edith Daphne Amerine  
 Belvia M. Ash  
 Virginia Mae Colbert  
 Marcella Kerr Hyde  
 Grayce Alverda Knittle  
 Edith Lee

Kathryn Mae Metcalf  
 Virginia Strong  
 Winetta Mary Westlake  
 Mabel Evelyn White  
 Bertha Arzena Williams

## KINDERGARTEN-PRIMARY (Two Year)

Mildred Iona Karn  
 Jessie Rosalee Ranly

Dorcas Elizabeth West

## COUNTY EDUCATION (Two Year)

Janet Faye Bachelor  
 Charles Comer Bradbury  
 Faye Irene Cordray

Gleneth Lane Darby  
 Margaret M. Detwiler  
 C. Arthur Ralston

# SUMMARY OF DEGREES AND DIPLOMAS GRANTED IN 1935

DEGREES	FEB.	JUNE	AUG.	TOTAL
Master of Arts -----	1	9	11	21
Bachelor of Arts -----	22	109	21	152
Bachelor of Arts in Commerce -----	5	25	6	36
Bachelor of Music -----	0	1	0	1
Bachelor of Science -----	0	12	1	13
Bachelor of Science in Electrical Engineering--	0	9	0	9
Bachelor of Science in Civil Engineering -----	0	7	0	7
Bachelor of Secretarial Science -----	0	3	0	3
Bachelor of Science in Education -----	21	143	114	278
	49	318	153	520
DIPLOMAS				
Art Supervision -----	0	6	1	7
Elementary Education -----	9	44	43	96
Kindergarten-Primary Education -----	2	12	10	24
County Education -----	4	21	12	37
	15	83	66	164
Totals-----	64	401	219	684

## ALUMNI ASSOCIATION

(First established June 22, 1859)

"To cultivate fraternal relations among the alumni of the University and to promote the interests of our Alma Mater by such means as the Association may from time to time deem best."

### GENERAL OFFICERS

President, G. Floyd Cooper, '15-----Sherland Building, South Bend, Ind.  
 Vice President, John W. Galbreath, '20-----42 E. Gay Street, Columbus, Ohio  
 Secretary, Clark E. Williams, '21-----Box 285, Athens, Ohio  
 Treasurer, William H. Fenzel, '18-----19 Park Place, Athens, Ohio

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### CANTON CHAPTER

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 Secretary, Robert C. Clutter, '26x-----Box 1132, Charleston, W. Va.

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 Secretary, Clara Border, '26-----6042 Kimbark Ave., Chicago, Ill.

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 Secretary, Ilo Feurt, '27-----Apt. V, 3495 Burnet Ave., Cincinnati, Ohio

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President, Henry H. Eccles, '15\_\_\_\_1959 Oakland Crescent, Portsmouth, Ohio

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Secretary, Mrs. V. E. Metcalf, '31\_\_\_\_434 Fifth St., Marietta, Ohio

## THOMAS EWING CHAPTER (LANCASTER)

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Secretary, Noble C. Shilt, '21\_\_\_\_2210 Kearney St., Washington, D. C.

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President, Elizabeth Lowmiller, '20, 2 yr.\_\_\_\_\_

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Secretary, Miss Marion Morgan, '32x\_\_\_\_1618 Ohio Ave., Youngstown, Ohio

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President, Russell P. Herrold, '16\_\_\_\_36 Culbertson Ave., Zanesville, Ohio

Secretary, Rachel Higgins, '17\_\_\_\_23 N. Seventh St., Zanesville, Ohio

# ENROLLMENT

Distribution by Counties of Ohio, States, and Foreign Countries  
1935-1936

## STATE OF OHIO

Adams -----	6	Licking -----	59
Allen -----	12	Logan -----	10
Ashland -----	1	Lorain -----	37
Ashtabula -----	37	Lucas -----	14
Athens -----	665	Madison -----	6
Auglaize -----	3	Mahoning -----	128
Belmont -----	74	Marion -----	28
Brown -----	2	Medina -----	7
Butler -----	23	Meigs -----	143
Carroll -----	5	Mercer -----	2
Champaign -----	1	Miami -----	6
Clark -----	13	Monroe -----	62
Clermont -----	1	Montgomery -----	37
Clinton -----	6	Morgan -----	51
Columbiana -----	21	Morrow -----	6
Coshocton -----	25	Muskingum -----	56
Crawford -----	13	Noble -----	31
Cuyahoga -----	241	Ottawa -----	7
Darke -----	4	Paulding -----	4
Defiance -----	1	Perry -----	111
Delaware -----	10	Pickaway -----	27
Erie -----	3	Pike -----	12
Fairfield -----	68	Portage -----	5
Fayette -----	12	Preble -----	2
Franklin -----	39	Putnam -----	3
Fulton -----	7	Richland -----	28
Gallia -----	55	Ross -----	48
Geauga -----	2	Sandusky -----	5
Greene -----	4	Scioto -----	95
Guernsey -----	37	Seneca -----	1
Hamilton -----	30	Shelby -----	10
Hancock -----	4	Stark -----	61
Hardin -----	6	Summit -----	33
Harrison -----	28	Trumbull -----	49
Henry -----	0	Tuscarawas -----	56
Highland -----	9	Union -----	7
Hocking -----	89	Van Wert -----	14
Holmes -----	2	Vinton -----	45
Huron -----	10	Warren -----	2
Jackson -----	62	Washington -----	123
Jefferson -----	89	Wayne -----	9
Knox -----	20	Williams -----	3
Lake -----	28	Wood -----	4
Lawrence -----	74	Wyandot -----	1

Total ----- 3295

## OTHER STATES

Alabama -----	1	New Hampshire -----	1
Colorado -----	1	New Jersey -----	21
Connecticut -----	7	New Mexico -----	1
Delaware -----	2	New York -----	129
Florida -----	5	North Carolina -----	1
Illinois -----	7	North Dakota -----	1
Indiana -----	11	Oregon -----	1
Kansas -----	2	Pennsylvania -----	73
Kentucky -----	6	South Dakota -----	2
Maryland -----	1	Texas -----	1
Massachusetts -----	14	Vermont -----	2
Michigan -----	7	Virginia -----	4
Missouri -----	1	West Virginia -----	175
		Wisconsin -----	3
		Total -----	480

## FOREIGN COUNTRIES

France -----	1
Total Resident Students -----	3776

# ENROLLMENT SUMMARY—JUNE 10, 1935 TO APRIL 10, 1936

	Summer Sessions 1935			First Semester 1935-1936			Second Semester Students not in First Semester			Total All Sessions			Total Excluding Duplicates		
	M	W	T	M	W	T	M	W	T	M	W	T	M	W	T
ENROLLMENT															
RESIDENT STUDENTS															
Graduate-----	61	60	121	26	32	58	4	2	6	91	94	185	73	82	155
Seniors-----	159	252	411	203	178	381	16	9	25	378	439	817	327	370	697
Juniors-----	114	305	419	217	179	396	19	16	35	350	500	850	312	458	770
Sophomores-----	37	72	109	332	294	626	12	11	23	381	377	758	356	340	696
Freshmen-----	29	22	51	571	330	901	34	26	60	634	378	1012	614	367	981
Specials															
Full-Time-----	134	149	283	6	15	21	5	2	7	145	166	311	130	161	291
Part-Time-----	26	22	48	47	76	123	7	17	24	80	115	195	71	105	176
Auditors-----	1	4	5	1	3	4	0	2	2	2	9	11	2	8	10
Totals-----	561	886	1447	1403	1107	2510	97	85	182	2061	2078	4139	1885	1891	3776
NON-RESIDENT STUDENTS															
Extension Division															
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January 1, 1935 to															
January 1, 1936-----												726			

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